

# SPECIAL USE PERMIT

# VIRGINIA HOUSING DEVELOPMENT AUTHORITY

# PARKING DECK

CITY OF RICHMOND, VIRGINIA

### SITE SUMMARY

**OWNER/DEVELOPER:** VIRGINIA HOUSING DEVELOPMENT AUTHORITY  
13 S 13TH STREET  
RICHMOND, VIRGINIA 23260

**CONTACT:** KEVIN RYAN  
TELEPHONE NO: 202-600-7026

**ENGINEER:** DRAPER ADEN ASSOCIATES  
1030 WILMER AVE, SUITE 100  
RICHMOND, VIRGINIA 23227

**CONTACT:** KEITH SCHOLTEN, P.E.  
TELEPHONE NO: 804-799-7661  
FAX NO: 804-264-8773  
EMAIL: KSCHOLTEN@DAA.COM

**PARCEL NUMBER:** W0000094001

**LOCATION:** 13 S 13TH STREET, RICHMOND, VA 23260

**PRESENT ZONING:** M-1 - LIGHT INDUSTRIAL

**PROJECT SUMMARY:**  
EXISTING USE: OPEN SPACE  
PROPOSED USE: PARKING DECK  
ACREAGE: 1.289 ACRES (PARCEL AREA FROM CITY GIS)

**FLOOD ZONE:** X FIRM COMMUNITY—PANEL NUMBER: 5101290037D DATED: APRIL 2, 2009

**LAND DISTURBANCE:** 1.20 ACRES

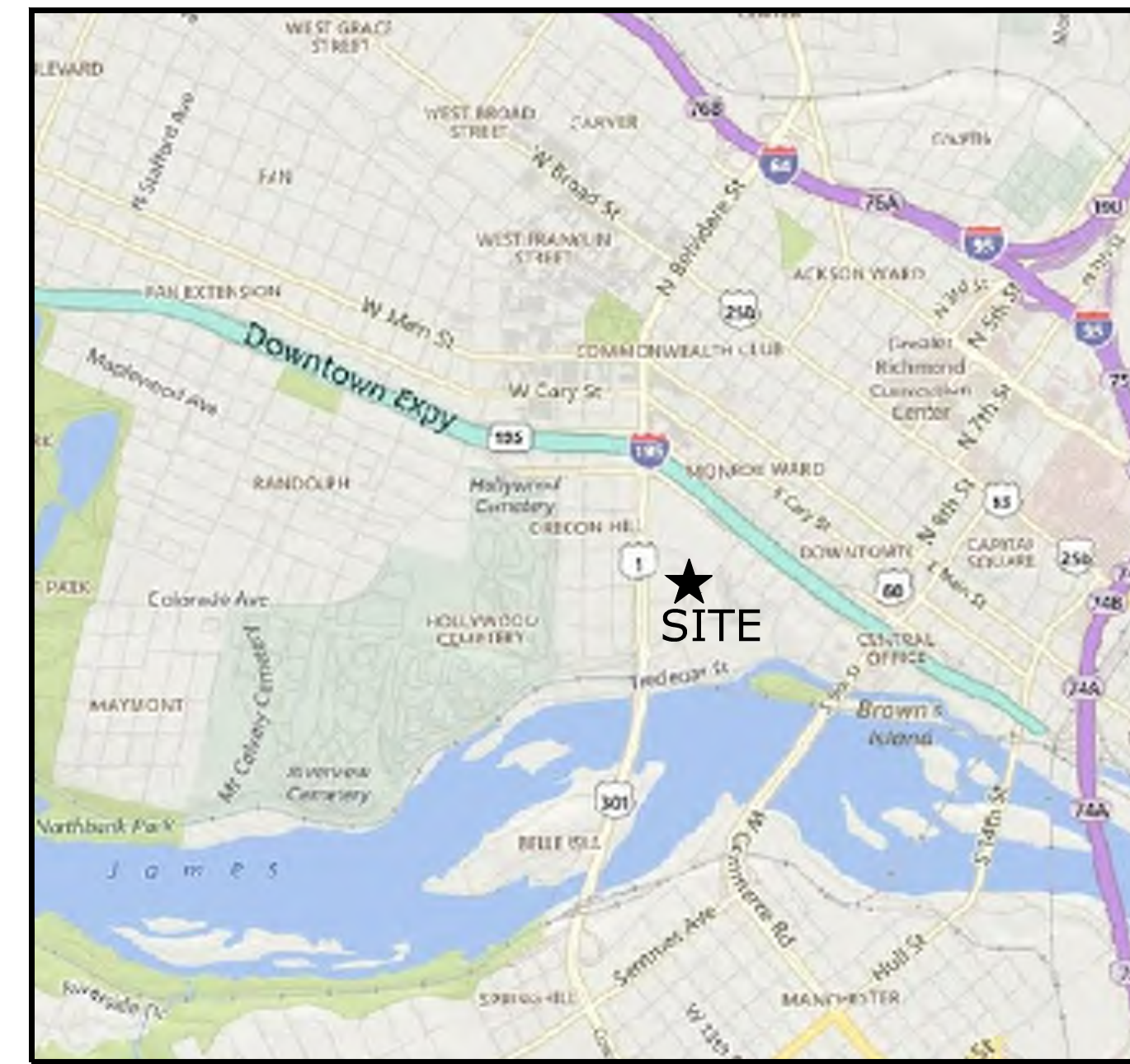
**WETLANDS ON-SITE:** NO  
**WETLAND PERMITS REQ'D:** NO  
**VSMP PERMIT:** YES  
**RPA ON-SITE:** NO  
**RMA ON-SITE:** YES  
**WATER:** CITY OF RICHMOND  
**SEWER:** CITY OF RICHMOND

**PERMIT CHECKLIST:**

WETLANDS DISTURBANCE (STATE)	NO
RSMP (CITY)	YES
PLUMBING (CITY)	YES
BUILDING (CITY)	YES
WORK IN STREET (CITY)	NO
VSMP (STATE)	NO

### PARKING

LEVEL	FULL SPACES	ACCESSIBLE SPACES	VAN SPACES	TOTAL SPACES
LEVEL 1	45		2	47
LEVEL 2	76	2		78
LEVEL 3	76	2		78
LEVEL 4	81	2		83
<b>TOTAL</b>	<b>278</b>	<b>6</b>	<b>2</b>	<b>286</b>



### VICINITY MAP

1" = 2000'

### PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CONSTRUCT A NEW PARKING DECK AND ASSOCIATED HARDSCAPE FEATURES, STORM, AND UTILITY INFRASTRUCTURE TO SERVE THE VHDA HEADQUARTERS EXPANSION. THE TOTAL AREA OF LAND DISTURBANCE FOR THIS PROJECT IS 1.20 ACRES.

APRIL 14, 2020

### DAA PROJECT #19020461-010303

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NOTE: CONTRACTOR TO CONTACT MISS UTILITY (811) IN ADVANCE OF PLANNED WORK. ADVANCE TIME PERIOD SHALL BE IN ACCORDANCE WITH CURRENT MISS UTILITY GUIDELINES (www.missutilityofvirginia.com).



### SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C100	COVER SHEET
C101	GENERAL NOTES, LEGEND & ABBREVIATIONS
C102	EROSION CONTROL NOTES
C103	POLLUTION PREVENTION PLAN
C201	EXISTING CONDITIONS
C301	EROSION CONTROL PHASE 1
C302	CIVIL DEMOLITION PLAN
C303	EROSION CONTROL PHASE 2
C401	SITE LAYOUT PLAN
C501	SITE UTILITY PLAN
C601	SITE GRADING PLAN
C701	SITE DRAINAGE PLAN
C1101	EROSION CONTROL DETAILS
C1102	SITE DETAILS
C1103	UTILITY DETAILS
C1104	UTILITY DETAILS
C1105	STORM DETAILS
C1106	STORM DETAILS
L-0001	PARKING DECK LANDSCAPE PLAN
L-0002	LANDSCAPE NOTES & PLANT SCHEDULE
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AM.1	3D VIEWS
A003	VENTILATION CALCULATIONS
A004	GARAGE SIGNAGE
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A202	LEVEL D2
A203	LEVEL D3
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A303	PANEL DETAILS
A401	SECTIONS
ELECTRICAL	
E002	ONE LINE DIAGRAM
E211	ELECTRICAL - LIGHTING - D1 FLOOR PLAN
E212	ELECTRICAL - LIGHTING - D2 FLOOR PLAN
E213	ELECTRICAL - LIGHTING - D3 FLOOR PLAN
E214	ELECTRICAL - LIGHTING - D4 FLOOR PLAN
FIRE PROTECTION	
FP212	PLUMBING-FIRE PROTECTION-D1 FLOOR PLAN

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# HEADQUARTERS EXPANSION PARKING DECK AND BRIDGE

601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

### ISSUE LOG

SPECIAL USE PERMIT	DATE
CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION      DATE      NO.



Sheet Name:  
COVER SHEET

Sheet Number:

**C100**

Hourigan Project Number: 19053

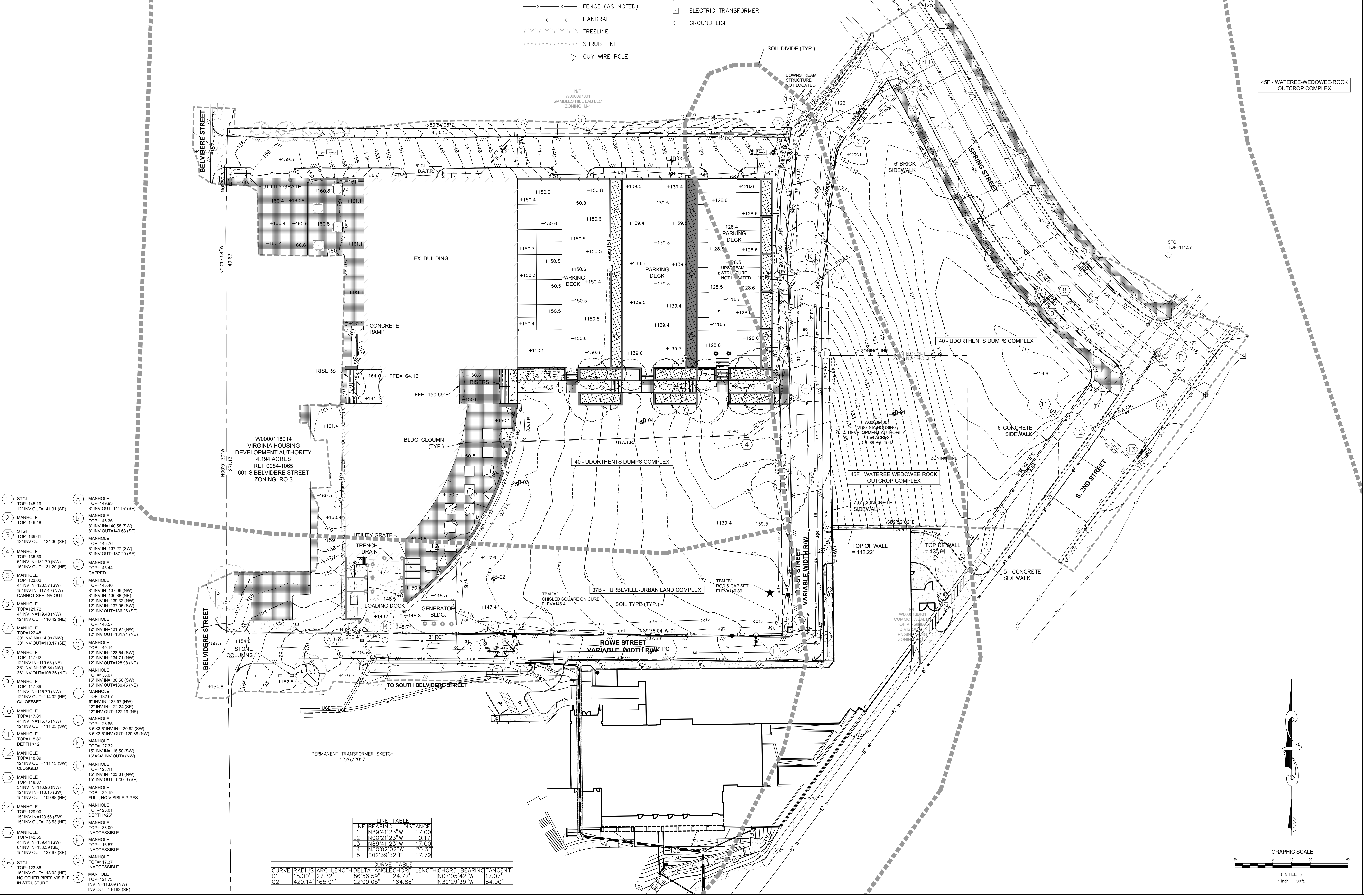






- NOTES:**
- SOURCE OF MERIDIAN: NAD 83 SOUTH ZONE PER GPS OBSERVATION BY DRAPER ADEN ASSOCIATES.
  - VERTICAL DATUM: SITE DATUM PER PREVIOUS PROJECT.
  - THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR TITLE REPORT AND ALL EASEMENTS AND ENCUMBRANCES THAT MIGHT BE DISCLOSED IN A TITLE SEARCH MAY NOT BE SHOWN.
  - UTILITIES SHOWN ARE BASED UPON:  
SUE QUALITY LEVEL B, ASCE 38-02 - FIELD DESIGNATION OF UNDERGROUND UTILITIES PERFORMED BY DAA ON 3-11-20 AND VISIBLE EVIDENCE IN CONJUNCTION WITH COMPILED RECORDS.
  - THIS TOPOGRAPHIC SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ROBERT J. BONK, L.S. FROM AN ACTUAL GROUND SURVEY MADE UNDER MY SUPERVISION; THAT THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON MONTH DAY 01-21-20 AND 03-17-20 AND THAT THIS PLAT AND/OR MAP MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.
  - CONTOUR INTERVAL: 1'.
  - THIS SURVEY WAS PREPARED FOR NAME OF OWNER. DRAPER ADEN ASSOCIATES ASSUMES NO LIABILITY FOR REUSE OR MODIFICATION OF THIS DOCUMENT.
  - PROPERTY LINES SHOWN ARE COMPILED FROM RECORD AND A FIELD BOUNDARY SURVEY WAS NOT PERFORMED.
  - DRAPER ADEN ASSOCIATES PROVIDES BENCHMARKS FOR THE CONSTRUCTION OF THE IMPROVEMENTS SHOWN ON THESE PLANS. ALL OTHER EXISTING ELEVATIONS ARE FOR REFERENCE TO EXISTING CONDITIONS ONLY. DO NOT USE SPOT ELEVATIONS, FINISH FLOOR ELEVATIONS, ELEVATIONS ON MANHOLES, ELEVATIONS ON SURVEY NAILS, SURVEY HUBS, CONTROL POINTS (HORIZONTAL POINTS PROVIDED) OR ANY OTHER POINTS FOR CONSTRUCTION OTHER THAN THE PROVIDED BENCHMARKS. FAILURE TO UTILIZE AND VERIFY THE PROVIDED BENCHMARKS COULD RESULT IN DAMAGES AND ADDITIONAL COST THAT ARE THE CONTRACTOR'S RESPONSIBILITY.
  - THE PROPERTY SHOWN HEREON IS LOCATED IN FLOOD ZONE X BASED ON A SCALED LOCATION ON FIRM PANEL #5101290037D EFFECTIVE DATE 04/02/09. THIS FLOOD DETERMINATION IS NOT A RECOMMENDATION BY DRAPER ADEN ASSOCIATES TO NOT PURCHASE OR PURCHASE FLOOD INSURANCE COVERAGE AND DOES NOT IMPLY THAT THE REFERENCED PROPERTY WILL OR WILL NOT BE FREE FROM FLOOD DAMAGE.
  - MATTERS PERTAINING TO ARCHEOLOGICAL OR HISTORIC FEATURES, WETLANDS OR FLOOD CONDITIONS, IF ANY, HAVE NOT BEEN ADDRESSED AS PART OF THIS SURVEY.

- LEGEND:**
- PROPERTY LINE
  - CONTOUR
  - SPOT ELEVATION
  - SANITARY SEWER AND MANHOLE
  - STORM LINE AND MANHOLE
  - SS GRAVITY & STORM PER RICHMOND GIS (APPROXIMATE LOCATION)
  - UNKNOWN UTILITY
  - UNDERGROUND ELECTRIC
  - UNDERGROUND TELEPHONE
  - UNDERGROUND FIBER OPTIC
  - WATERLINE
  - ASPHALT
  - BUILDING
  - FENCE (AS NOTED)
  - HANDRAIL
  - TREELINE
  - SHRUB LINE
  - GUY WIRE POLE
  - MONUMENT FOUND
  - TELEPHONE PEDESTAL
  - TELEPHONE MANHOLE
  - FIRE HYDRANT
  - WATER VALVE
  - WATER METER
  - BENCHMARK
  - BOLLARD
  - SIGN (1-POST)
  - DECIDUOUS TREE
  - SHRUB
  - ELECTRIC BOX
  - ELECTRIC MARKER
  - ELECTRICAL MANHOLE
  - UTILITY POLE
  - ELECTRIC TRANSFORMER
  - GROUND LIGHT
  - GAS VALVE
  - SEWER CLEAN OUT
  - MONUMENT FOUND
  - LIGHT POLE
  - FIBER OPTIC PEDESTAL
  - FIBER OPTIC HANDHOLE
  - GRAVEL
  - BRICK
  - CONCRETE
  - LANDSCAPING
  - DRAINAGE GRATE
  - WALL



- |    |  |   |  |
|----|--|---|--|
| 1  | STGI<br>TOP=145.19<br>12" INV OUT=141.91 (SE)  | A | MANHOLE<br>TOP=149.83<br>8" INV OUT=141.97 (SE)  |
| 2  | MANHOLE<br>TOP=146.48  | B | MANHOLE<br>TOP=146.36<br>8" INV IN=149.58 (SW)<br>8" INV OUT=140.63 (SE)   |
| 3  | STGI<br>TOP=139.61<br>12" INV OUT=134.30 (SE)  | C | MANHOLE<br>TOP=145.76<br>8" INV IN=137.27 (SW)<br>8" INV OUT=137.20 (SE)   |
| 4  | MANHOLE<br>TOP=135.59<br>6" INV IN=131.79 (NW)<br>15" INV OUT=131.29 (NE)                            | D | MANHOLE<br>TOP=145.44<br>CAPPED  |
| 5  | MANHOLE<br>TOP=123.02<br>4" INV IN=120.37 (SW)<br>15" INV IN=117.49 (NW)<br>CANNOT SEE INV OUT       | E | MANHOLE<br>TOP=145.40<br>8" INV IN=137.06 (NW)<br>8" INV IN=136.86 (NE)<br>12" INV IN=139.32 (NW)<br>12" INV IN=137.26 (SW)<br>12" INV OUT=136.26 (SE) |
| 6  | MANHOLE<br>TOP=121.72<br>4" INV IN=119.48 (NW)<br>12" INV OUT=116.42 (NE)                            | F | MANHOLE<br>TOP=140.57<br>12" INV IN=131.91 (NW)<br>12" INV OUT=131.91 (NE)   |
| 7  | MANHOLE<br>TOP=122.48<br>30" INV IN=114.09 (NW)<br>30" INV OUT=113.17 (SE)                           | G | MANHOLE<br>TOP=140.14<br>12" INV IN=128.54 (SW)<br>12" INV IN=134.71 (NW)<br>30" INV IN=108.34 (NW)<br>30" INV OUT=108.36 (NE)                         |
| 8  | MANHOLE<br>TOP=117.62<br>12" INV IN=110.63 (NE)<br>30" INV IN=108.34 (NW)<br>30" INV OUT=108.36 (NE) | H | MANHOLE<br>TOP=136.07<br>15" INV IN=130.58 (SW)<br>15" INV OUT=130.45 (NE)   |
| 9  | MANHOLE<br>TOP=117.89<br>4" INV IN=115.79 (NW)<br>12" INV OUT=114.02 (NE)<br>C/O OFFSET              | I | MANHOLE<br>TOP=132.67<br>6" INV IN=128.57 (NW)<br>12" INV IN=122.24 (SE)<br>12" INV OUT=122.19 (NE)  |
| 10 | MANHOLE<br>TOP=117.81<br>4" INV IN=115.76 (NW)<br>12" INV OUT=111.25 (SW)                            | J | MANHOLE<br>TOP=126.85<br>3" X 3" 5' INV IN=120.82 (SW)<br>3" X 3" 5' INV OUT=120.88 (NW)   |
| 11 | MANHOLE<br>TOP=115.87<br>DEPTH >12   | K | MANHOLE<br>TOP=127.32<br>15" INV IN=118.50 (SW)<br>16" X 24" INV OUT= (NW)   |
| 12 | MANHOLE<br>TOP=118.89<br>12" INV OUT=111.13 (SW)<br>C/O OFFSET                                       | L | MANHOLE<br>TOP=129.11<br>12" INV IN=123.61 (NW)<br>15" INV OUT=123.89 (SE)   |
| 13 | MANHOLE<br>TOP=118.87<br>3" INV IN=116.96 (NW)<br>12" INV IN=115.10 (SW)<br>15" INV OUT=109.88 (NE)  | M | MANHOLE<br>TOP=129.19<br>FULL, NO VISIBLE PIPES  |
| 14 | MANHOLE<br>TOP=129.00<br>12" INV IN=123.56 (SW)<br>15" INV OUT=123.53 (NE)                           | N | MANHOLE<br>TOP=123.01<br>DEPTH >25'  |
| 15 | MANHOLE<br>TOP=142.55<br>4" INV IN=139.44 (SW)<br>6" INV IN=138.59 (SE)<br>15" INV OUT=137.67 (SE)   | O | MANHOLE<br>TOP=138.09<br>INACCESSIBLE  |
| 16 | STGI<br>TOP=123.86<br>15" INV OUT=118.02 (NE)<br>NO OTHER PIPES VISIBLE<br>IN STRUCTURE              | P | MANHOLE<br>TOP=116.67<br>INACCESSIBLE  |
|    |  | Q | MANHOLE<br>TOP=117.37<br>INACCESSIBLE  |
|    |  | R | MANHOLE<br>TOP=121.73<br>INV IN=115.69 (NW)<br>INV OUT=116.63 (SE)   |

LINE TABLE			CURVE TABLE						
LINE BEARING	DISTANCE		CURVE	RADIUS	ARC LENGTH	CHORD	CHORD BEARING	TANGENT	
L1	N89°41'23" W	17.00	C1	18.00	27.32	86.55	24.77	N07°05'42" W	17.07
L2	N00°21'23" W	0.17							
L3	N65°41'23" W	17.00							
L4	N30°02'02" W	20.39							
L5	S02°39'32" E	17.79							
C1			C2	429.14	1165.91	22°09'05"	164.88	N39°29'39" W	84.00

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HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE

601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

SPECIAL USE PERMIT	DATE
CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION DATE NO.

PROFESSIONAL ENGINEER

KEITH A. SCHULTEN  
Lic. No. 36359  
10/14/2020

Sheet Name:  
EXISTING CONDITIONS

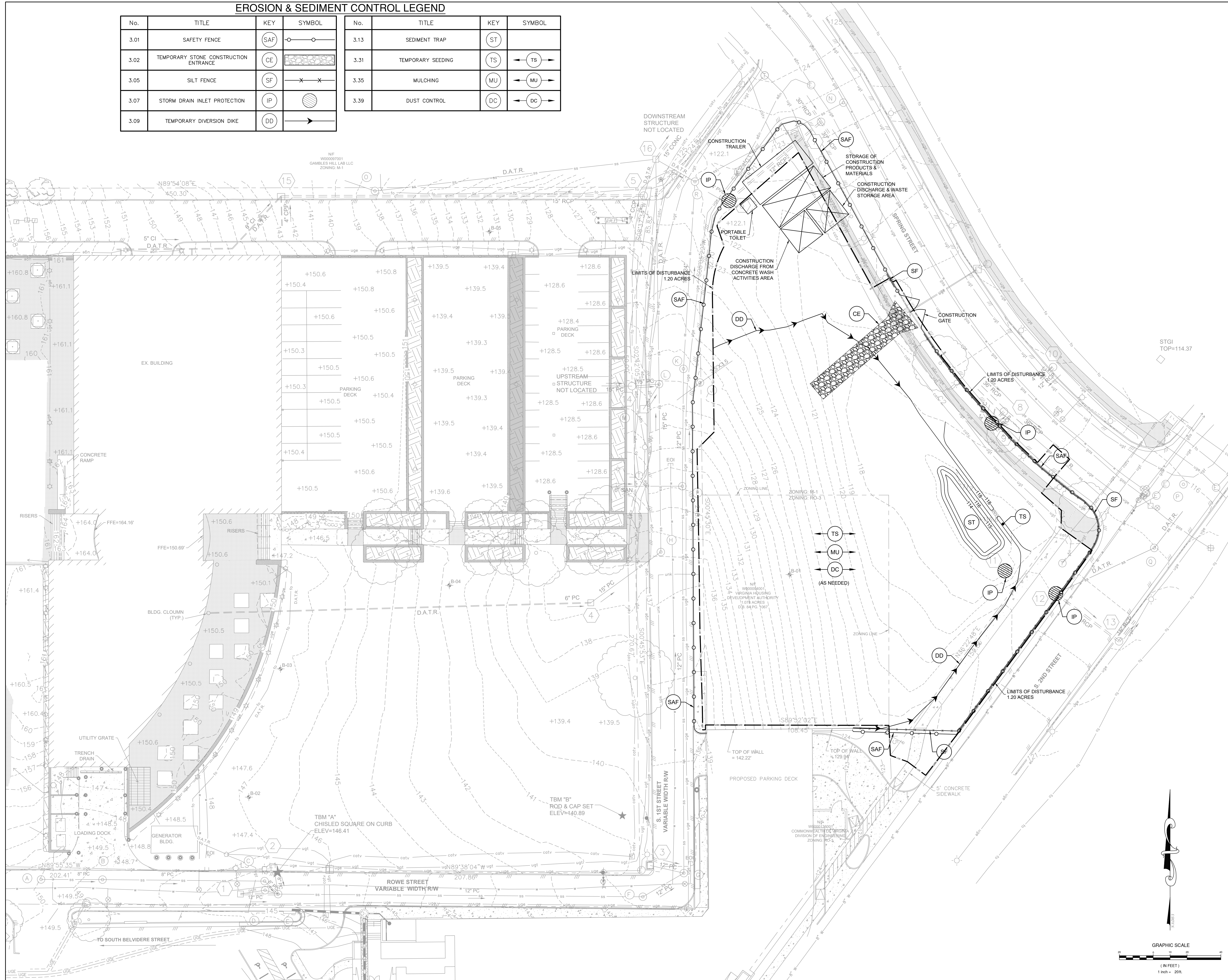
Sheet Number:  
C201

Hourigan Project Number: 19053

# EROSION & SEDIMENT CONTROL LEGEND

No.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	(SAF)	○—○
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	(CE)	▒
3.05	SILT FENCE	(SF)	× × ×
3.07	STORM DRAIN INLET PROTECTION	(IP)	▒
3.09	TEMPORARY DIVERSION DIKE	(DD)	—▶

No.	TITLE	KEY	SYMBOL
3.13	SEDIMENT TRAP	(ST)	○
3.31	TEMPORARY SEEDING	(TS)	←○→
3.35	MULCHING	(MU)	←○→
3.39	DUST CONTROL	(DC)	←○→



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HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE  
601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

**ISSUE LOG**

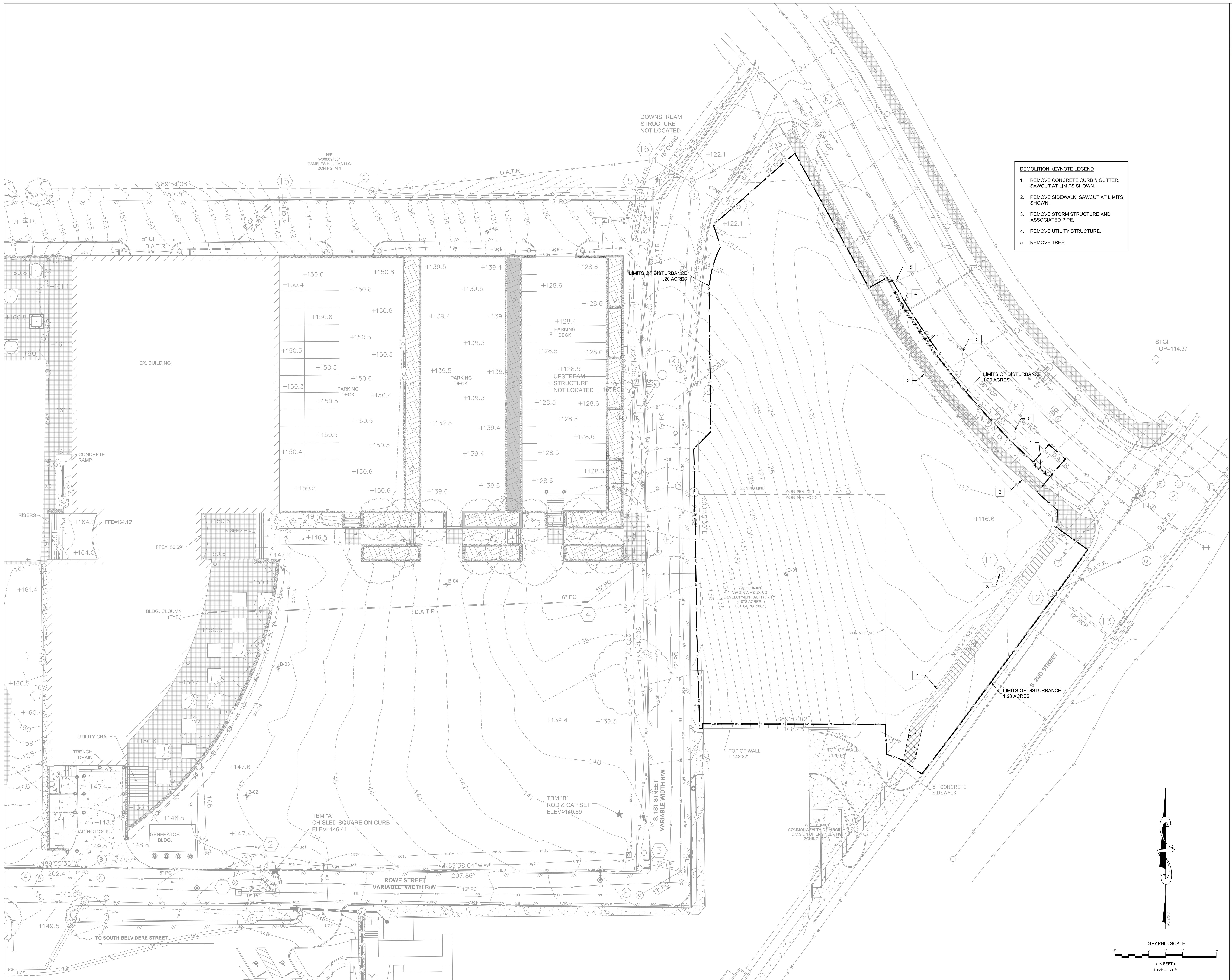
SPECIAL USE PERMIT	DATE
CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION	DATE	NO.

Sheet Name:  
**EROSION CONTROL PHASE 1**

Sheet Number:  
**C301**

Hourigan Project Number: 19053



- DEMOLITION KEYNOTE LEGEND**
1. REMOVE CONCRETE CURB & GUTTER, SAWCUT AT LIMITS SHOWN.
  2. REMOVE SIDEWALK, SAWCUT AT LIMITS SHOWN.
  3. REMOVE STORM STRUCTURE AND ASSOCIATED PIPE.
  4. REMOVE UTILITY STRUCTURE.
  5. REMOVE TREE.

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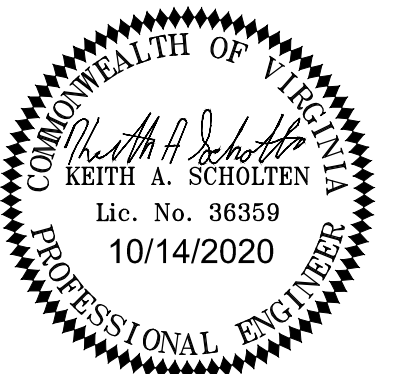
**HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE**

601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

**ISSUE LOG**

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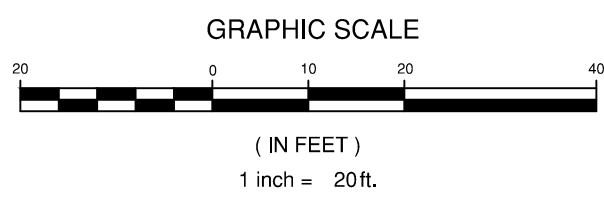
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Sheet Name:  
**CIVIL DEMOLITION PLAN**

Sheet Number:  
**C302**

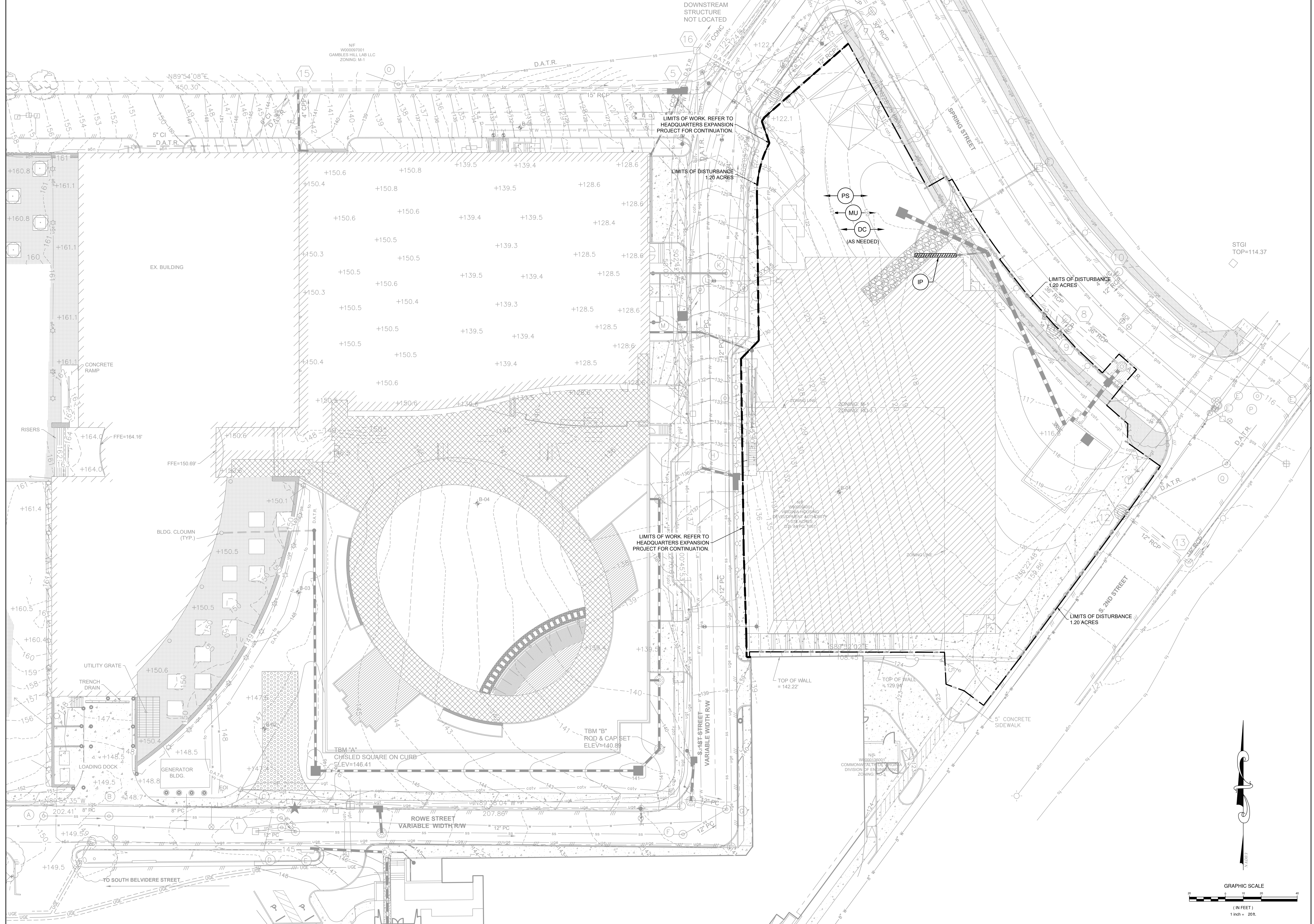
Hourigan Project Number: 19053



**EROSION & SEDIMENT CONTROL LEGEND**

No.	TITLE	KEY	SYMBOL
3.01	SAFETY FENCE	(SAF)	—○—○—
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	(CE)	
3.05	SILT FENCE	(SF)	—X—X—
3.07	STORM DRAIN INLET PROTECTION	(IP)	

No.	TITLE	KEY	SYMBOL
3.32	PERMANENT SEEDING	(PS)	←(PS)→
3.35	MULCHING	(MU)	←(MU)→
3.39	DUST CONTROL	(DC)	←(DC)→



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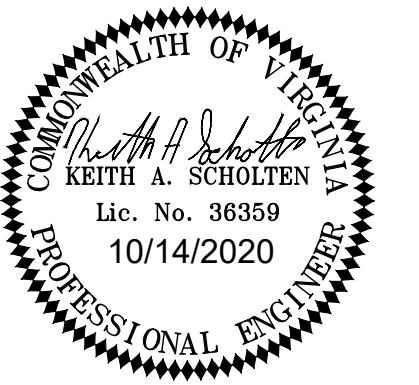
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**HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE**  
 601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

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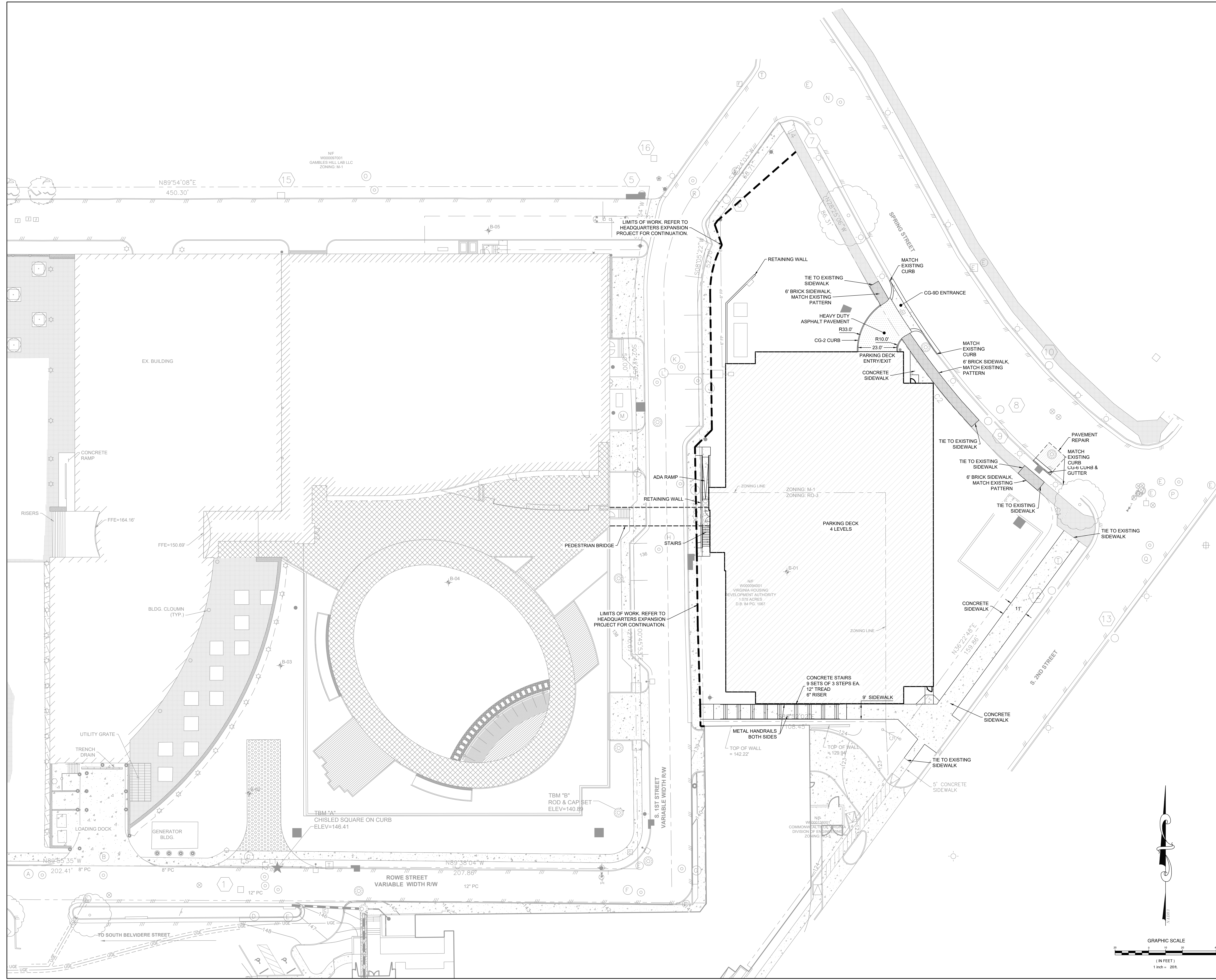
DESCRIPTION	DATE	NO.



Sheet Name:  
**EROSION CONTROL  
 PHASE 2**

Sheet Number:  
**C303**  
 Hourigan Project Number: 19053





**HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE**



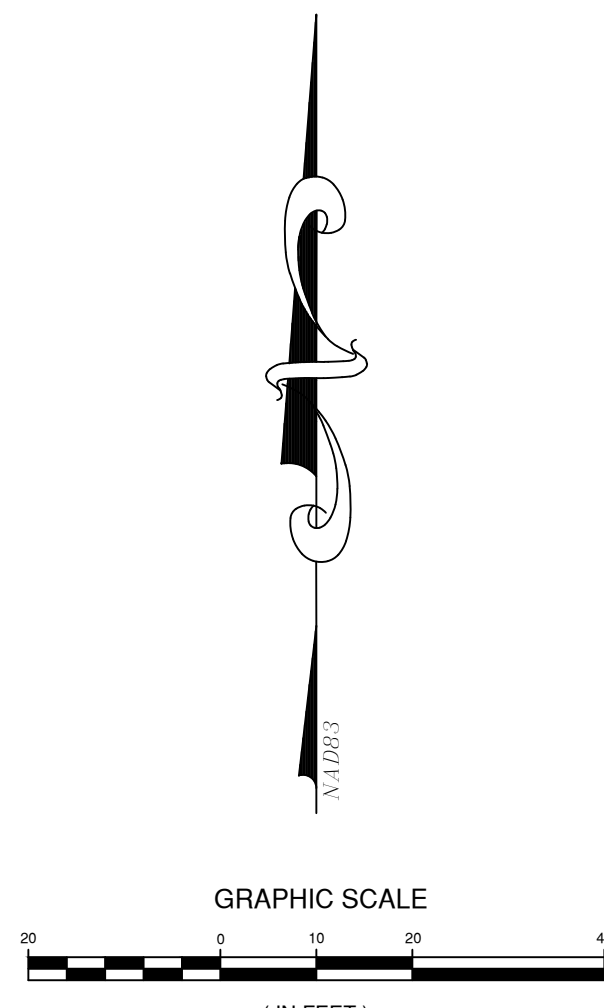
601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

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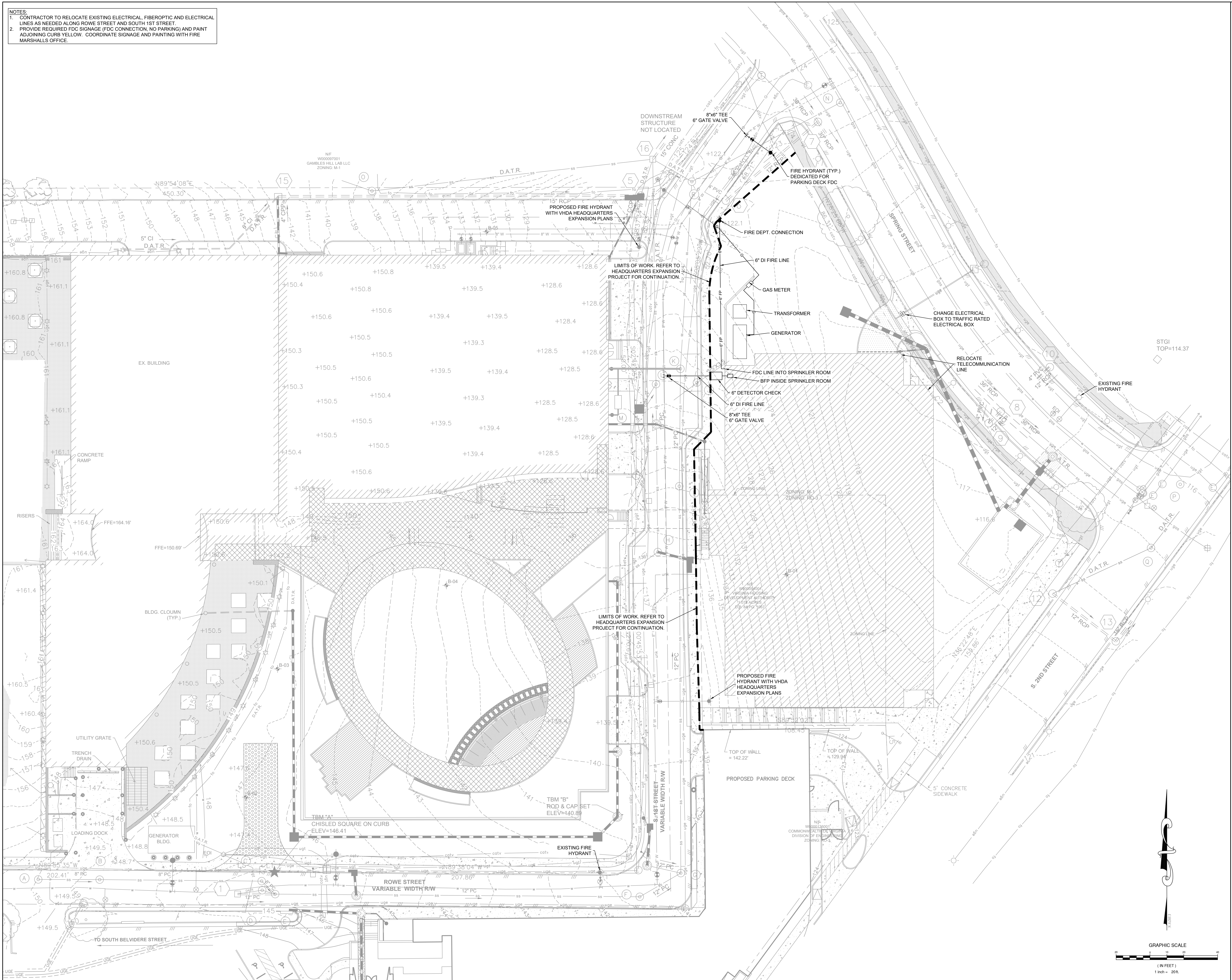
DESCRIPTION	DATE	NO.



Sheet Name:  
**SITE LAYOUT PLAN**



NOTES:  
 1. CONTRACTOR TO RELOCATE EXISTING ELECTRICAL, FIBEROPTIC AND ELECTRICAL LINES AS NEEDED ALONG ROWE STREET AND SOUTH 1ST STREET  
 2. PROVIDE REQUIRED FDC SIGNAGE (FDC CONNECTION, NO PARKING) AND PAINT ADJOINING CURB YELLOW. COORDINATE SIGNAGE AND PAINTING WITH FIRE MARSHALLS OFFICE.



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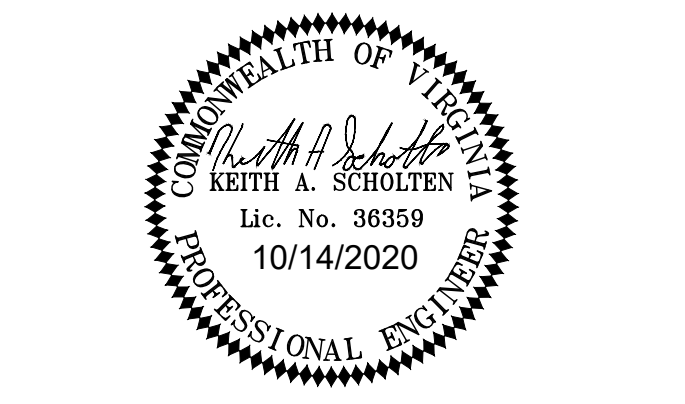


**VHDA**  
 HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE  
 601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

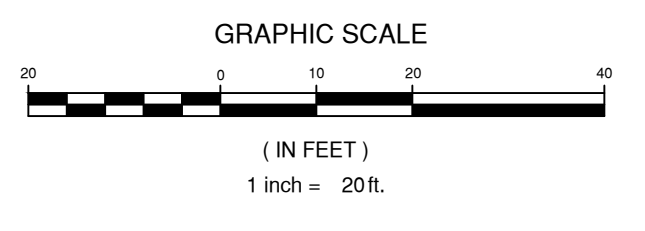
SPECIAL USE PERMIT	4/14/2020
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CITY COMMENTS	10/14/2020

DESCRIPTION	DATE	NO.



Sheet Name:  
**SITE UTILITY PLAN**

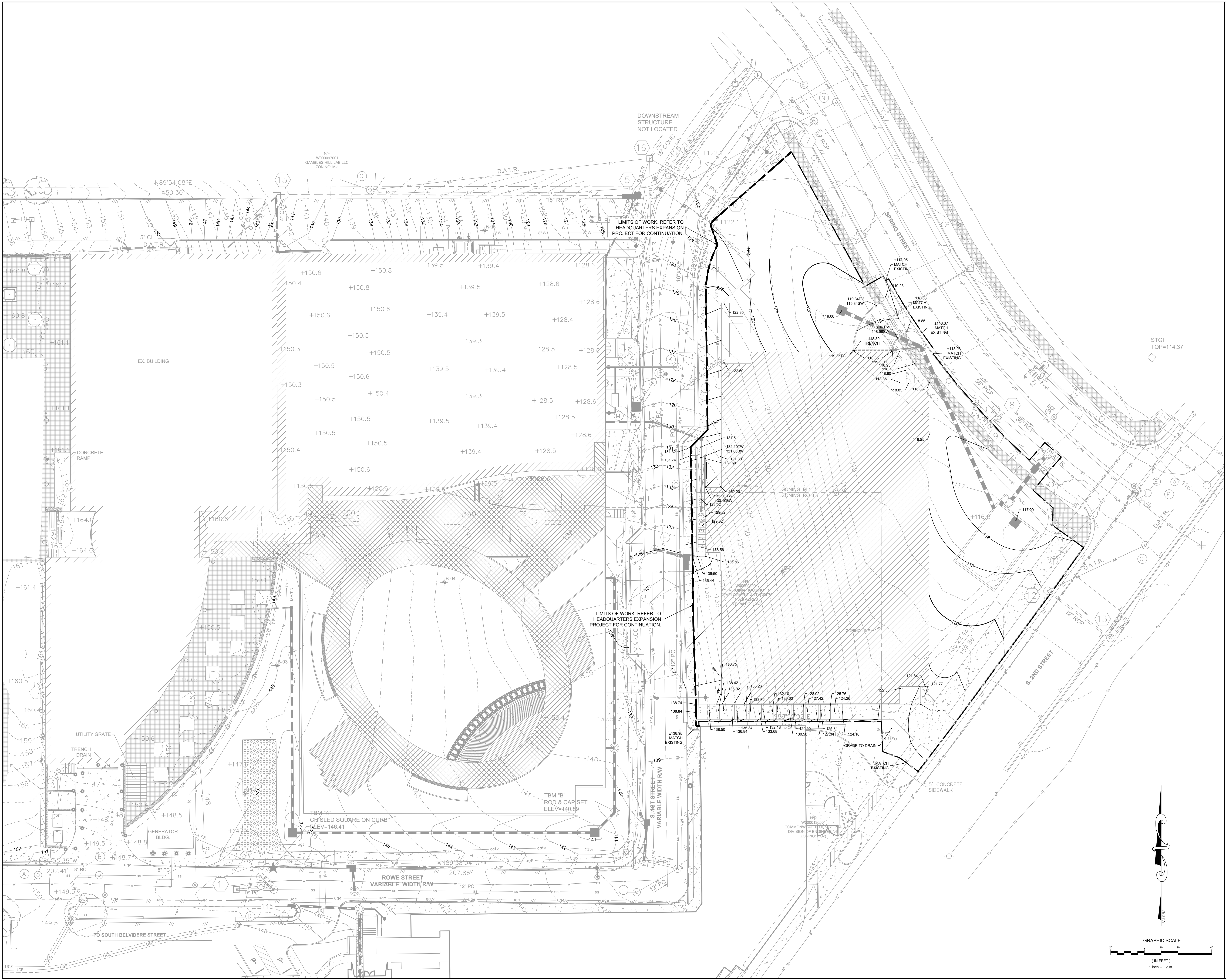
Sheet Number:  
**C501**  
 Hourigan Project Number: 19053





**HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE**

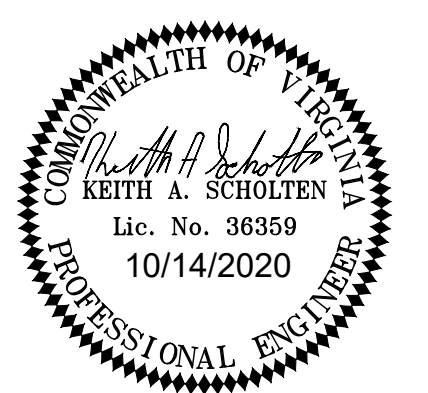
601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA



ISSUE LOG

SPECIAL USE PERMIT	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

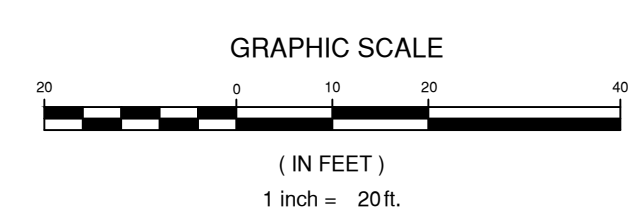
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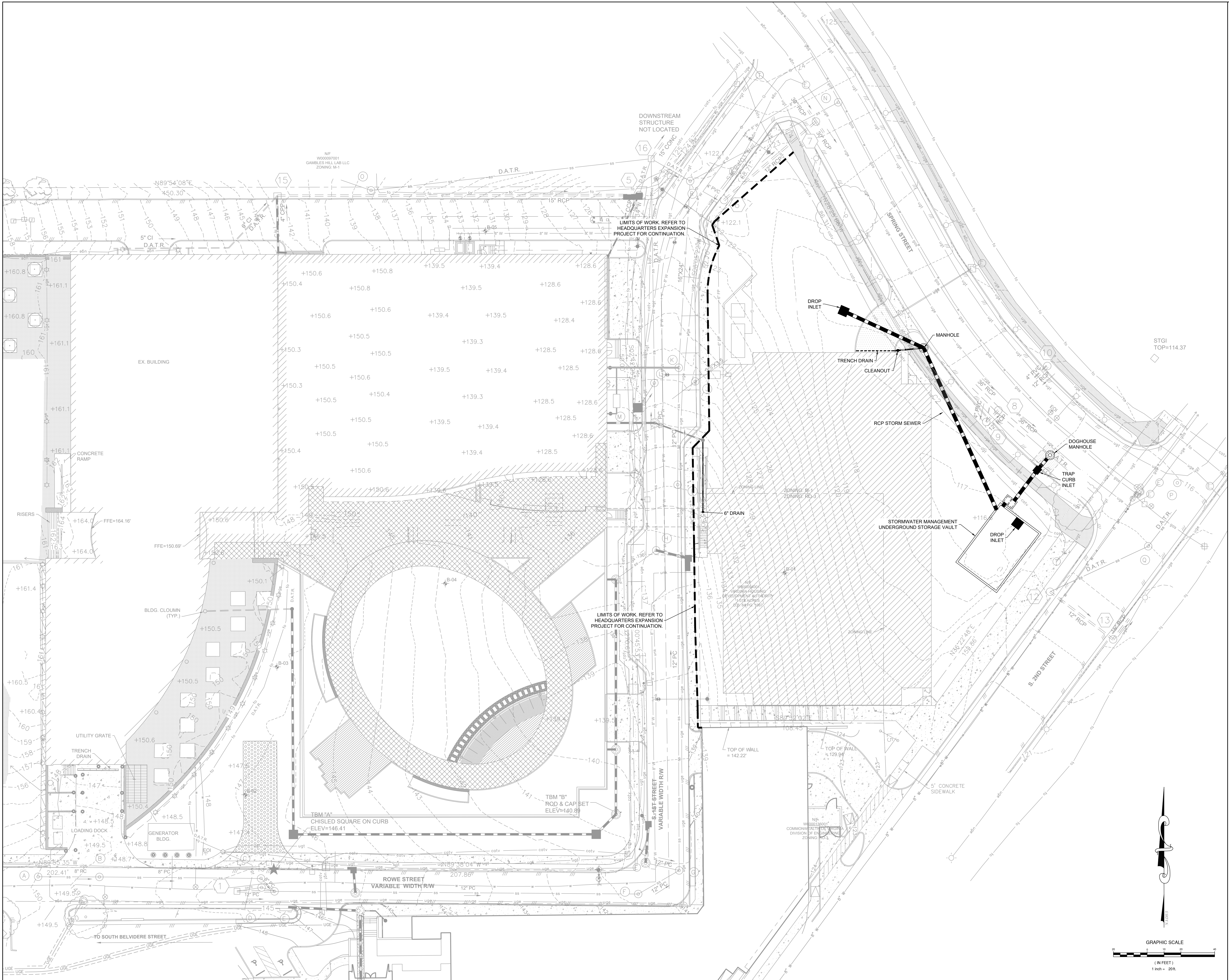


Sheet Name:  
**SITE GRADING PLAN**

Sheet Number:  
**C601**

Hourigan Project Number: 19053





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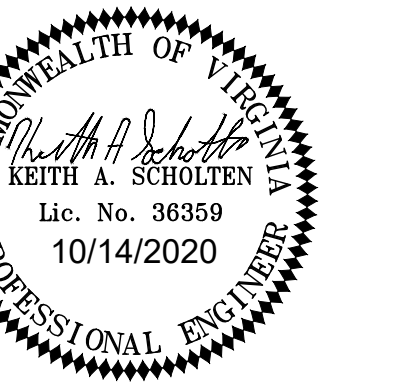
**VHDA**  
 HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE

601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

SPECIAL USE PERMIT	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

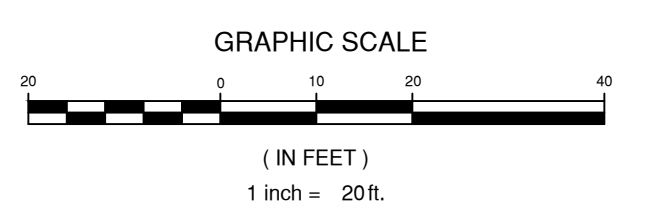
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Sheet Number:  
**C701**

Hourigan Project Number: 19053



ISSUE LOG

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CITY COMMENTS	10/14/2020

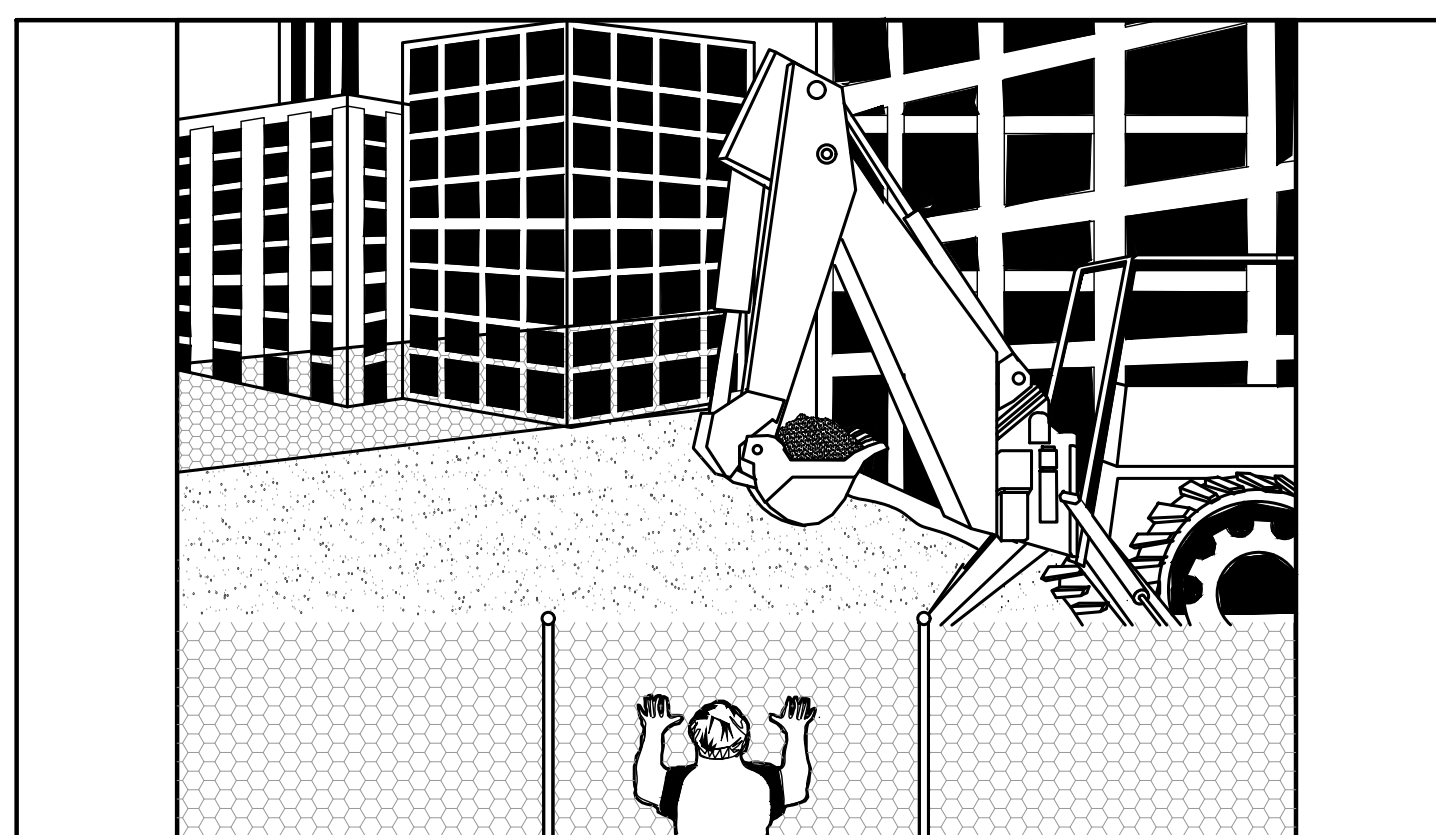
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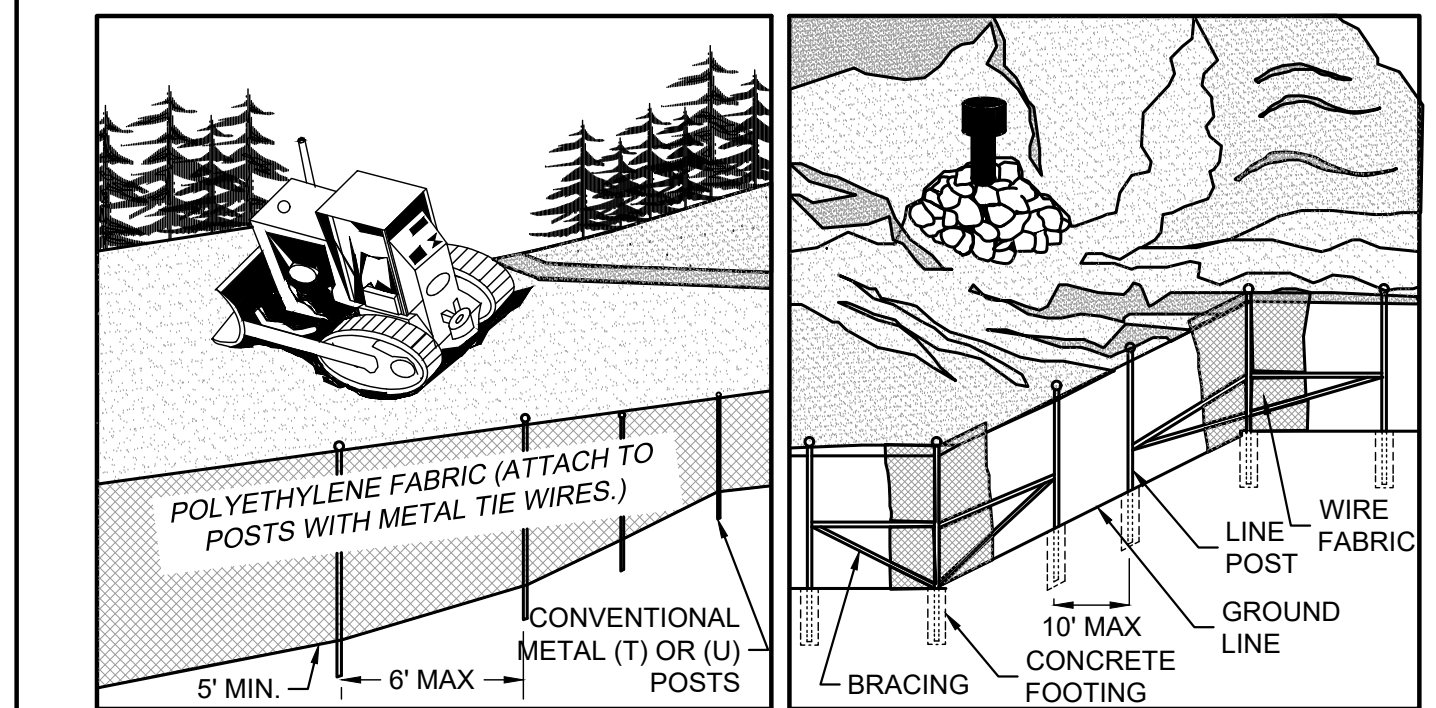
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**EROSION CONTROL  
DETAILS**

Sheet Number:  
**C1101**

Hourigan Project Number: 19053



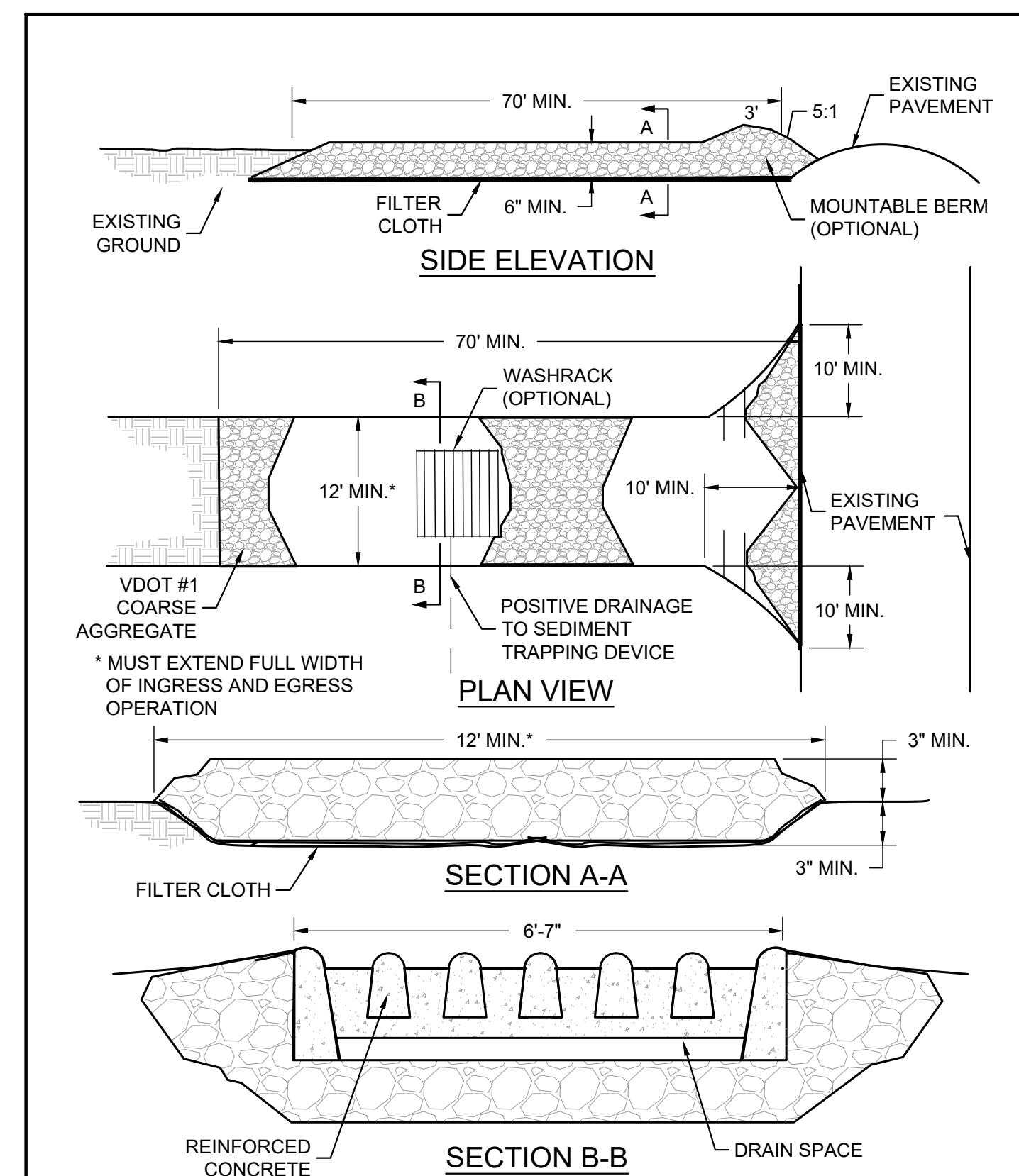
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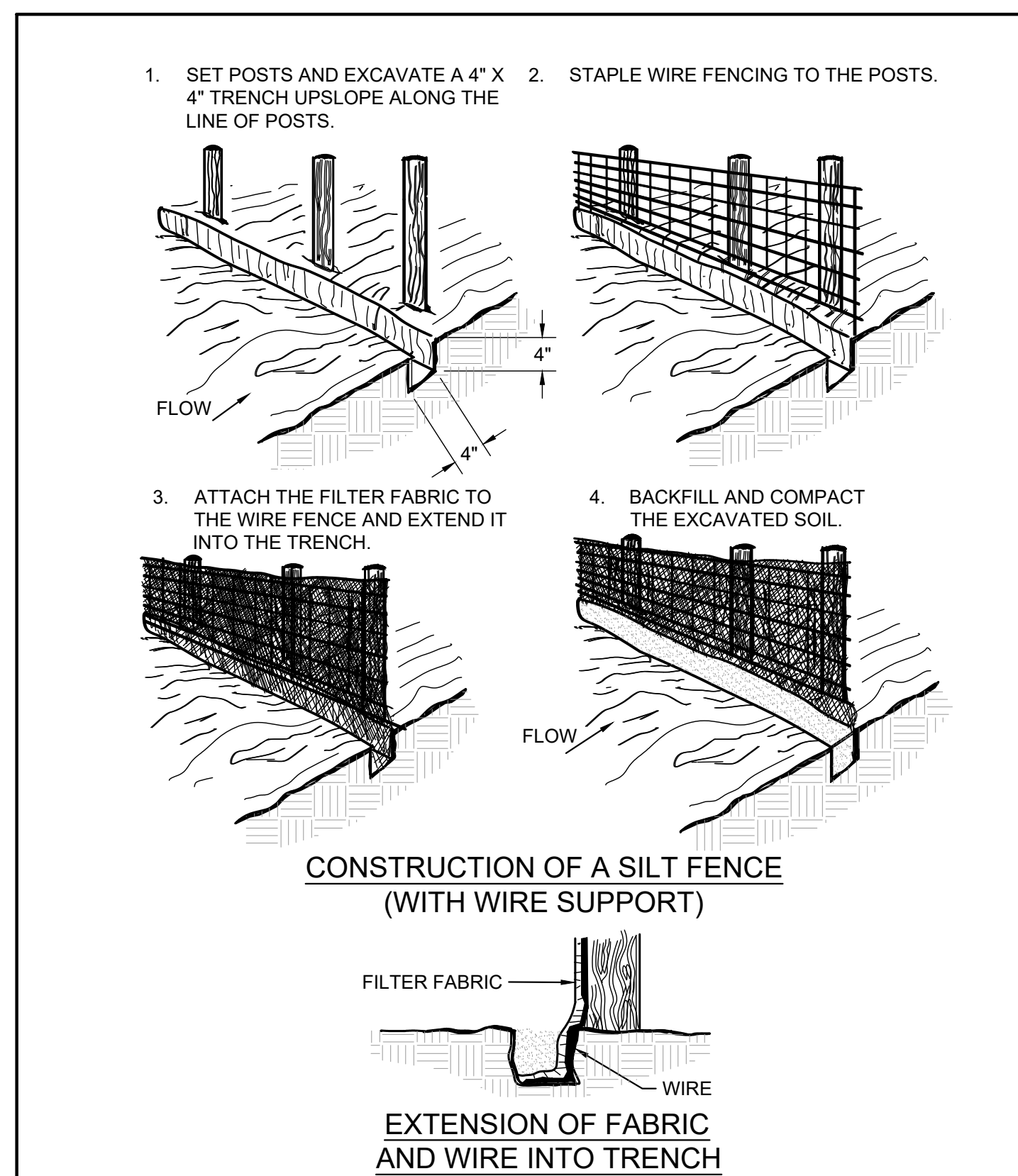
PERSPECTIVE VIEW  
PLASTIC FENCE

PERSPECTIVE VIEW  
METAL FENCE

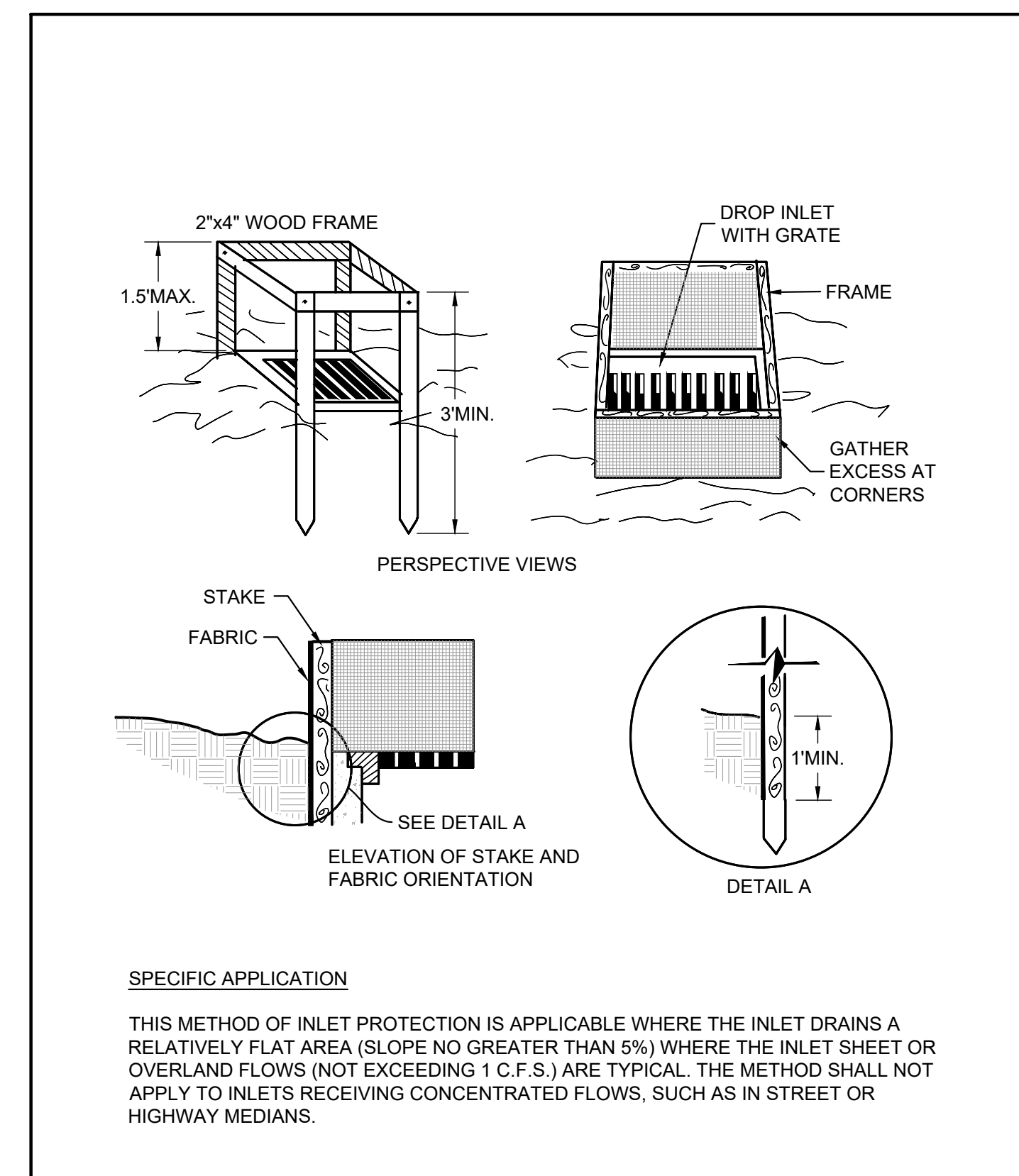
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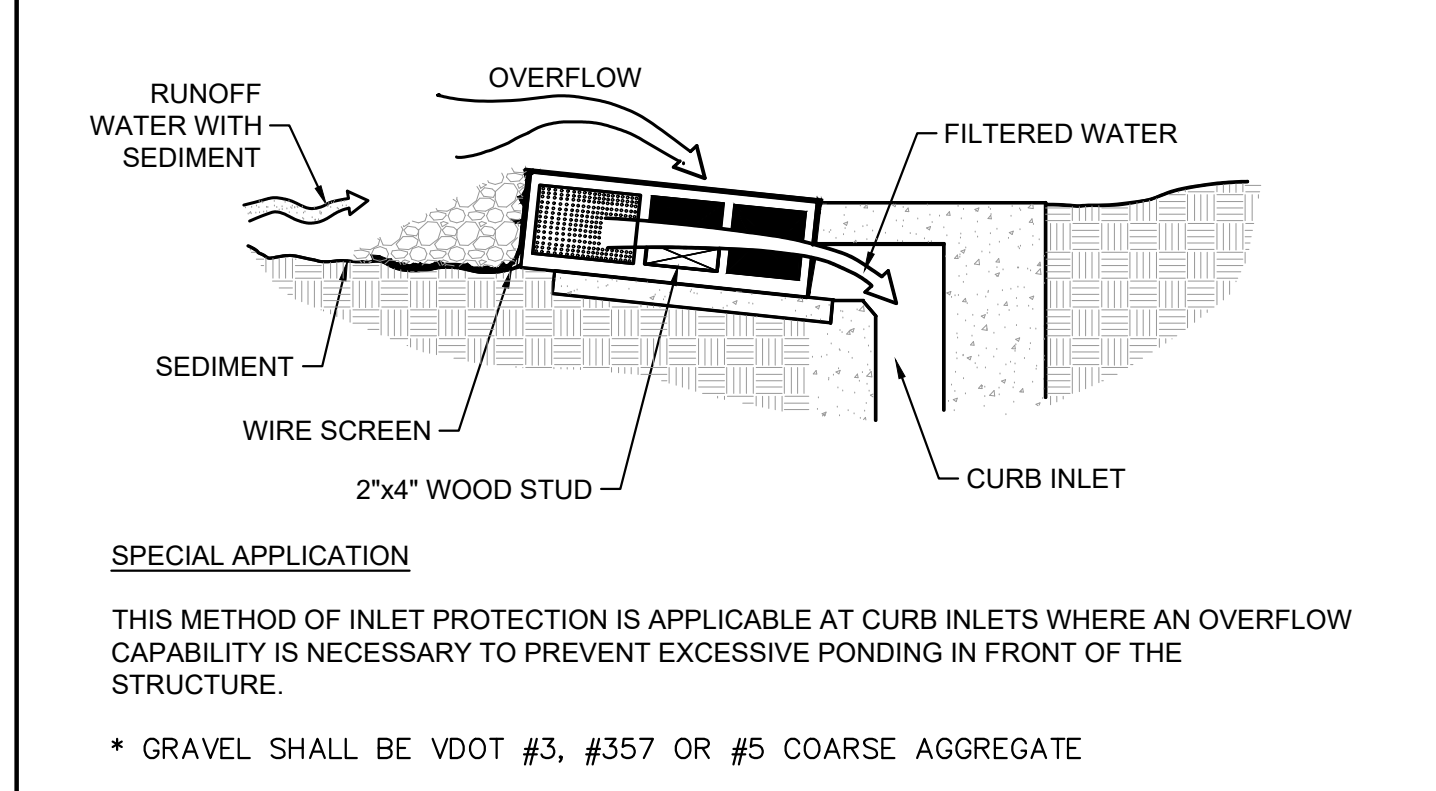
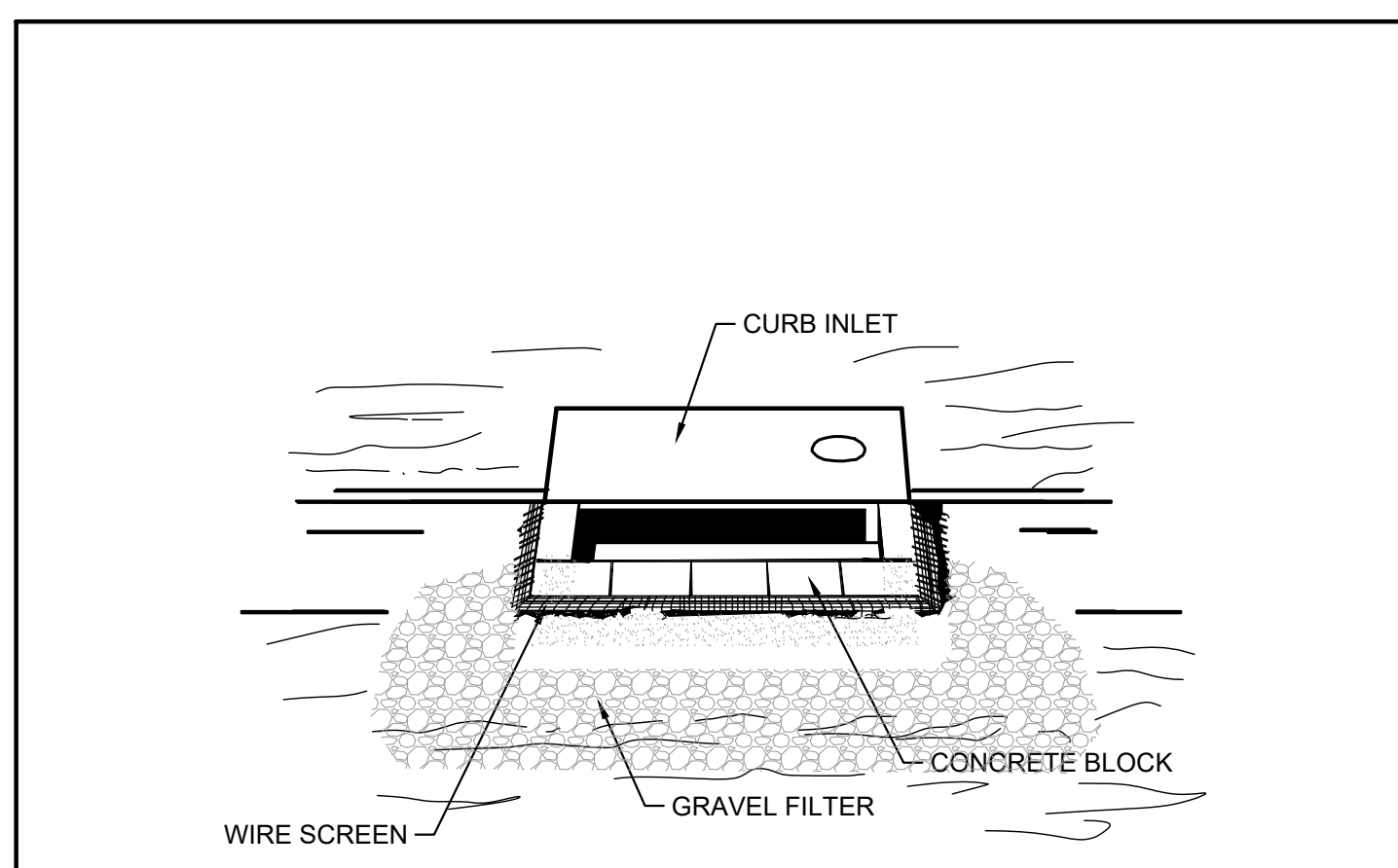
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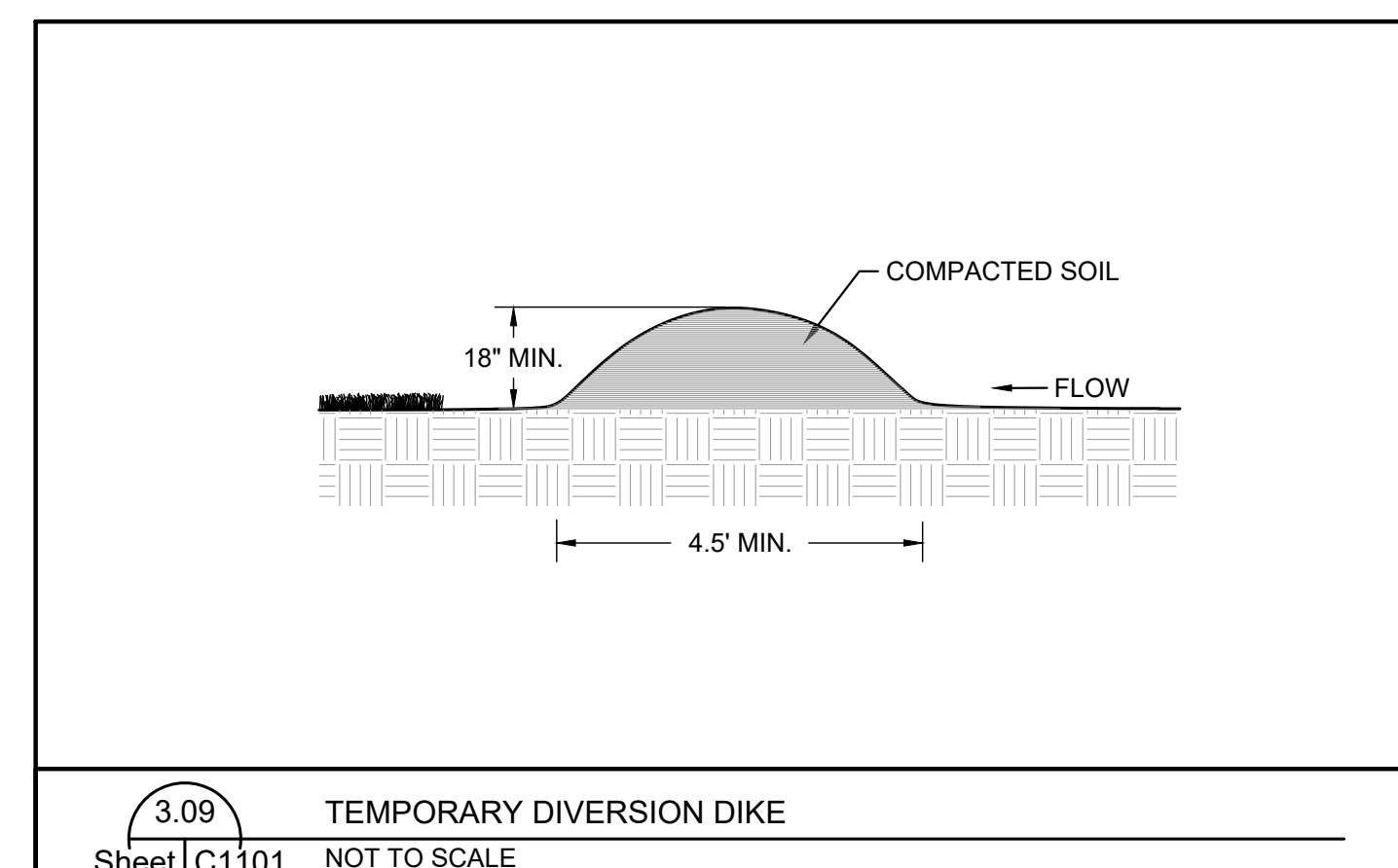
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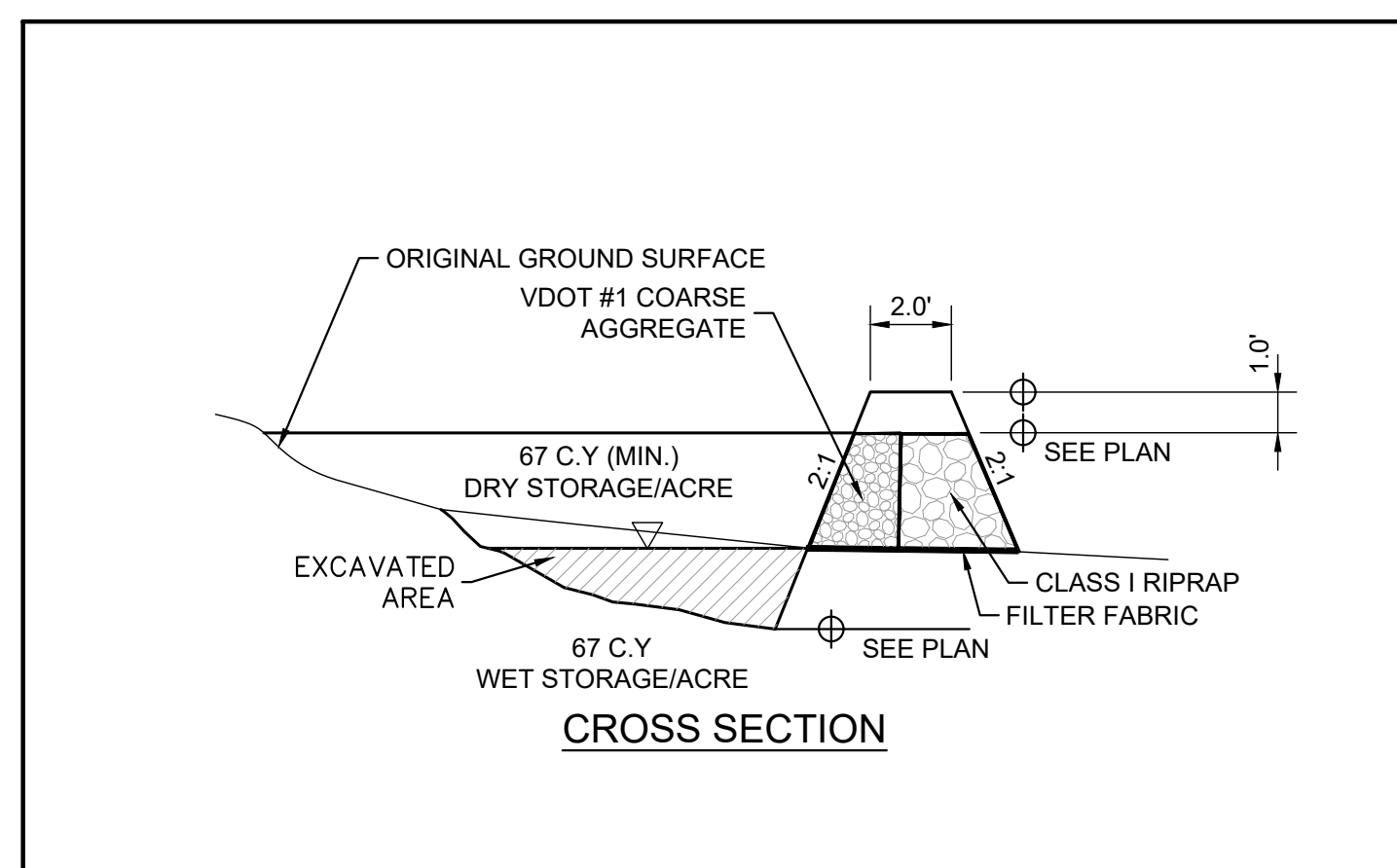
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3.08 BLOCK AND GRAVEL CURB INLET SEDIMENT FILTER  
Sheet C1101 NOT TO SCALE



3.09 TEMPORARY DIVERSION DIKE  
Sheet C1101 NOT TO SCALE



3.13 TEMPORARY SEDIMENT TRAP  
Sheet C1101 NOT TO SCALE

**TABLE 3.32-E**  
(Revised June 2003)  
**PERMANENT SEEDING SPECIFICATIONS FOR COASTAL PLAIN AREA**

LAND USE	SEED SPECIES	APPLICATION RATES
Minimum Care Lawn (Commercial or Residential)	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup>	175 - 200 lbs.
		75 lbs.
High-Maintenance Lawn	Tall Fescue <sup>1</sup> or Bermudagrass <sup>1</sup> (seed)	200-250 lbs.
	Bermudagrass <sup>1</sup> (by other vegetative establishment method, see Std. & Spec. 3.34)	40 lbs. (unhulled) 30 lbs. (hulled)
General Slope (3:1 or less)	Tall Fescue <sup>1</sup>	128 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop <sup>2</sup>	20 lbs.
	TOTAL	150 lbs.
Low-Maintenance Slope (Steeper than 3:1)	Tall Fescue <sup>1</sup>	93-108 lbs.
	Bermudagrass <sup>1</sup>	0-15 lbs.
	Red Top Grass or Creeping Red Fescue	2 lbs.
	Seasonal Nurse Crop <sup>2</sup>	20 lbs.
TOTAL	150 lbs.	

- When selecting varieties of turfgrasses, use the Virginia Crop Improvement Association (VCIA) recommended turfgrass variety list. Quality seed will bear a label indicating that they are approved by VCIA. A current turfgrass variety list is available at the local County Extension office or through VCIA at 804.746.4884 or at <http://sudan.ceset.edu/html/turf/turfpublications/publications2.htm>
- Use seasonal nurse crop in accordance with seeding dates as stated below:  
 February, March - April ..... Annual Rye  
 May 1<sup>st</sup> - August ..... Foxtail Millet  
 September, October - November 15<sup>th</sup> ..... Annual Rye  
 November 16<sup>th</sup> - January ..... Winter Rye
- May through October, use hulled seed. All other seeding periods, use unhulled seed. If Weeping Lovegrass is used, include in any slope or low maintenance mixture during warmer seeding periods, increase to 30-40 lbs/acre.

**FERTILIZER & LIME**

- Apply 10-20-10 fertilizer at a rate of 500 lbs./acre (or 12 lbs./1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs./1,000 sq. ft.)

**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4-6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swis/ess.htm#pubs>

**TABLE 3.31-B**  
(Revised June 2003)  
**TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS**

APPLICATION DATES	SEED SPECIES	APPLICATION RATES
Sept. 1 - Feb. 15	50/50 Mix of Annual Ryegrass (lolium multi-florum) & Cereal (Winter) Rye (Secale cereale)	50 - 100 (lbs/acre)
Feb. 16 - Apr. 30	Annual Ryegrass (lolium multi-florum)	60 - 100 (lbs/acre)
May 1 - Aug. 31	German Millet	50 (lbs/acre)

**FERTILIZER & LIME**

- Apply 10-10-10 fertilizer at a rate of 450 lbs./acre (or 10 lbs./1,000 sq. ft.)
- Apply Pulverized Agricultural Limestone at a rate of 2 tons/acre (or 90 lbs./1,000 sq. ft.)

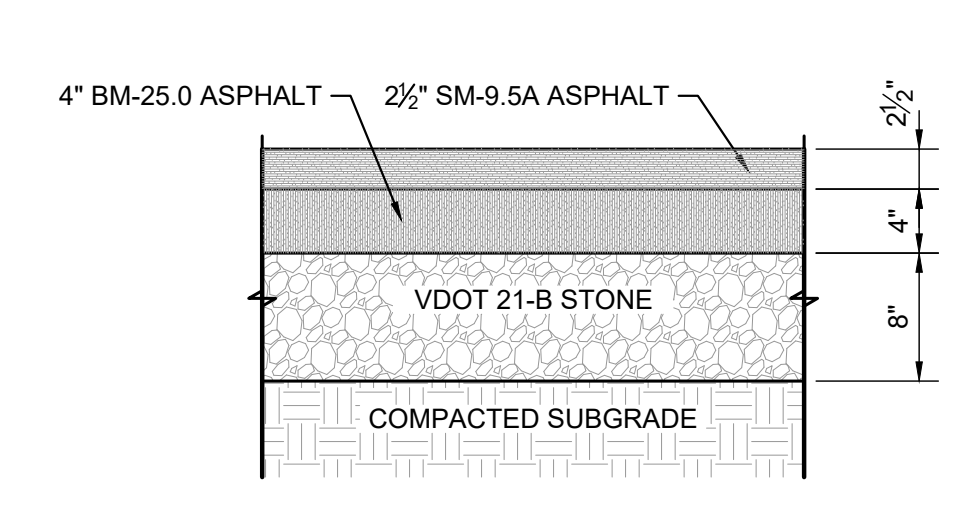
**NOTE:**

- A soil test is necessary to determine the actual amount of lime required to adjust the soil pH of site.
- Incorporate the lime and fertilizer into the top 4-6 inches of the soil by disking or by other means.
- When applying Slowly Available Nitrogen, use rates available in Erosion & Sediment Control Technical Bulletin # 4, 2003 Nutrient Management for Development Sites at <http://www.dcr.state.va.us/swis/ess.htm#pubs>

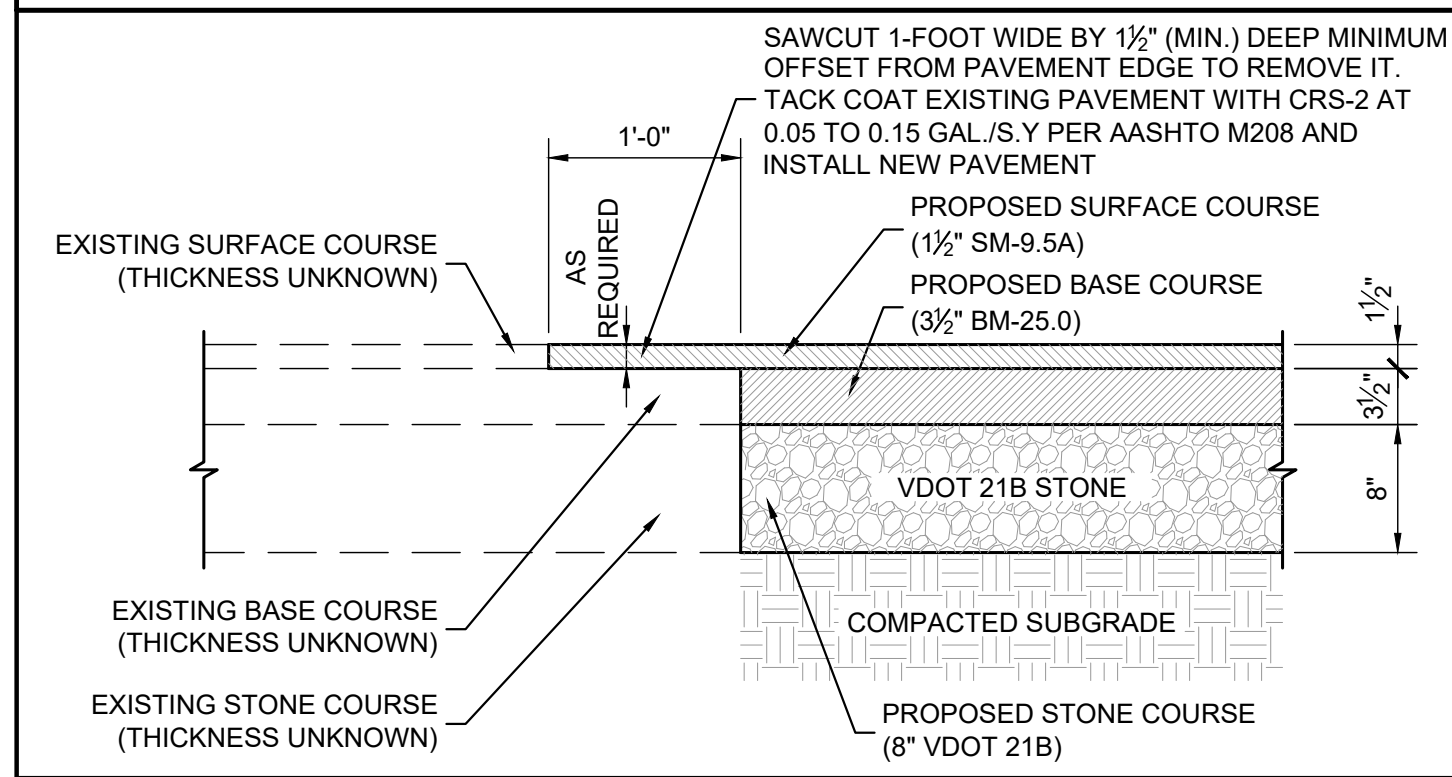
**TABLE 3.35-A**  
**ORGANIC MULCH MATERIALS AND APPLICATION RATES**

MULCHES:	RATES:		NOTES:
	Per Acre	Per 1000 sq. ft.	
Straw or Hay	1½ - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

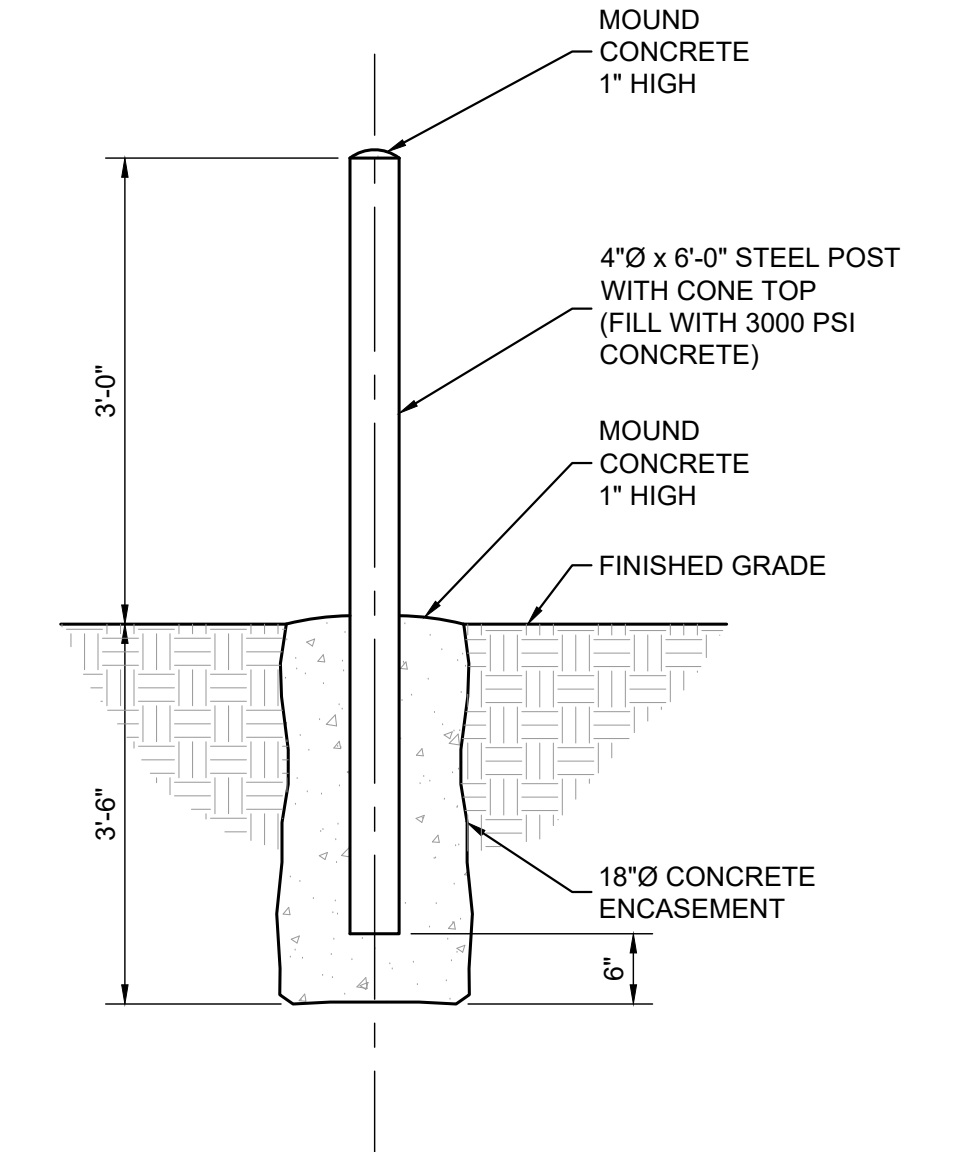
\* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.



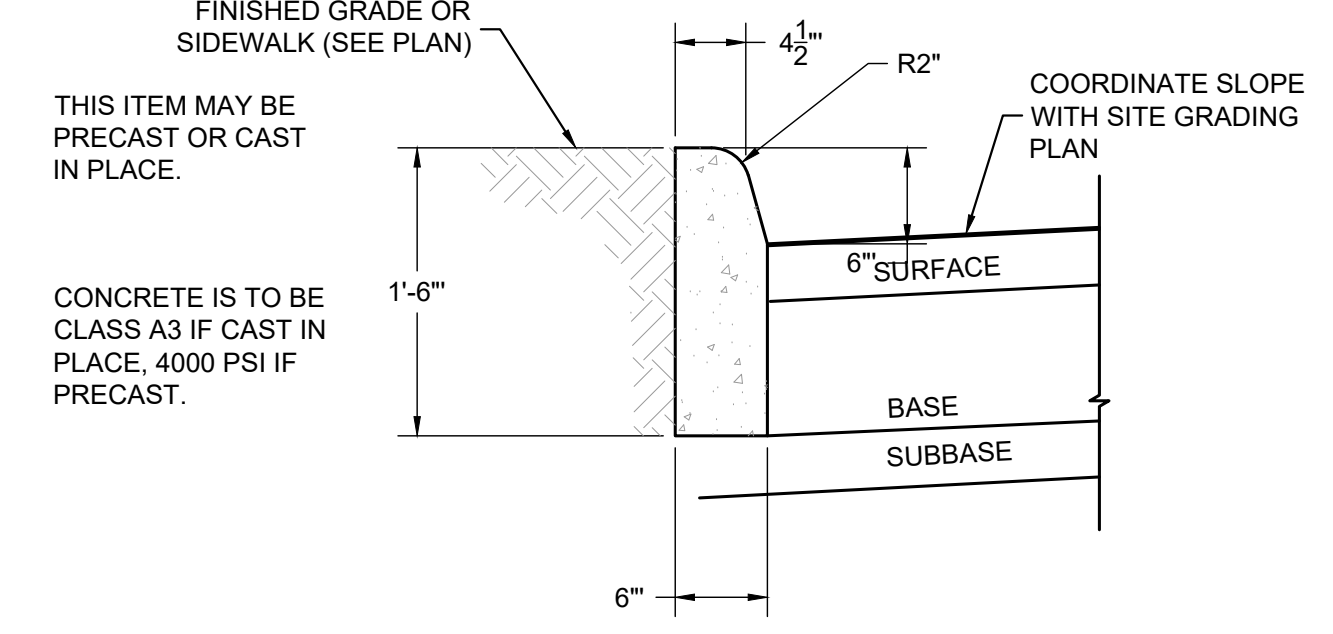
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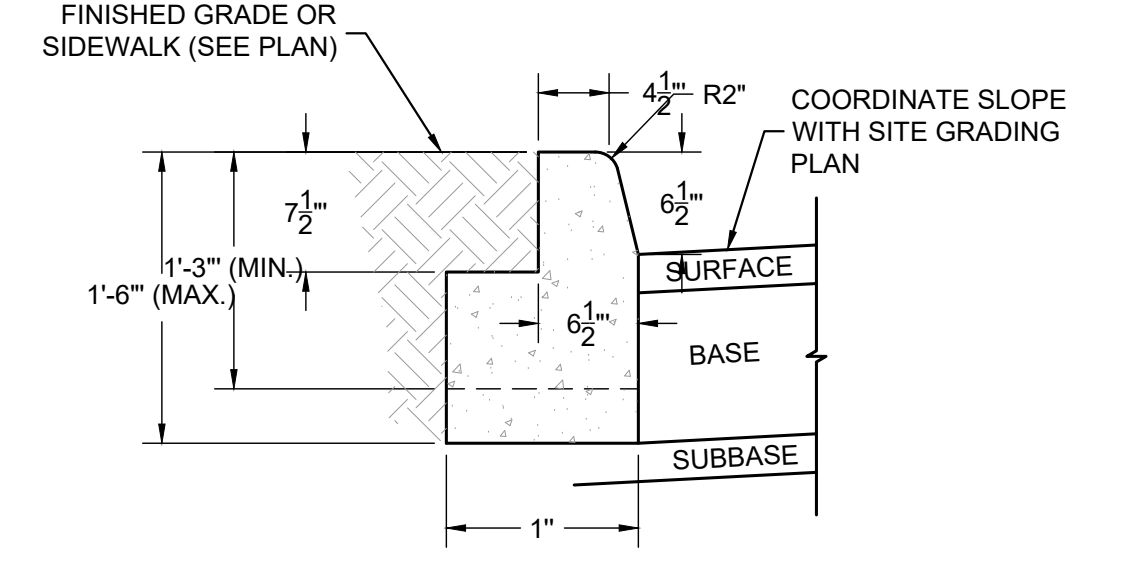
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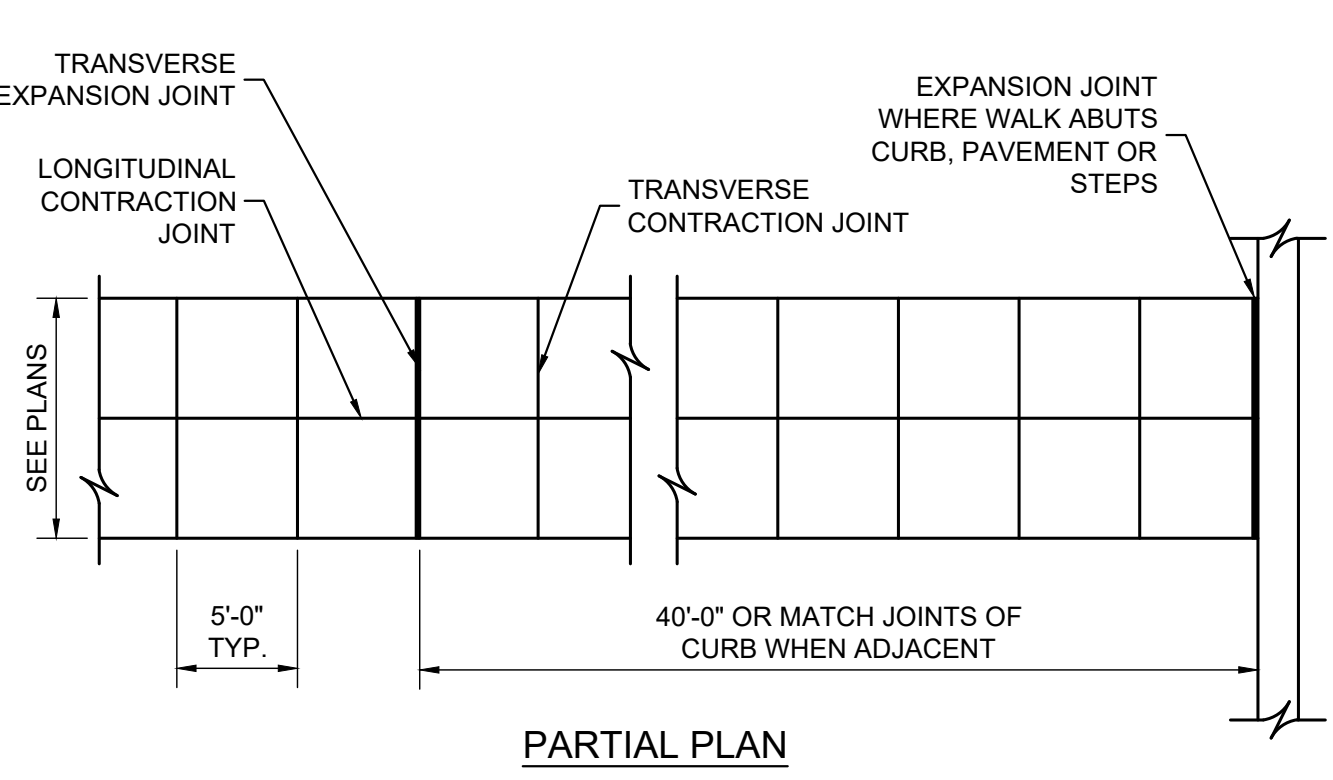
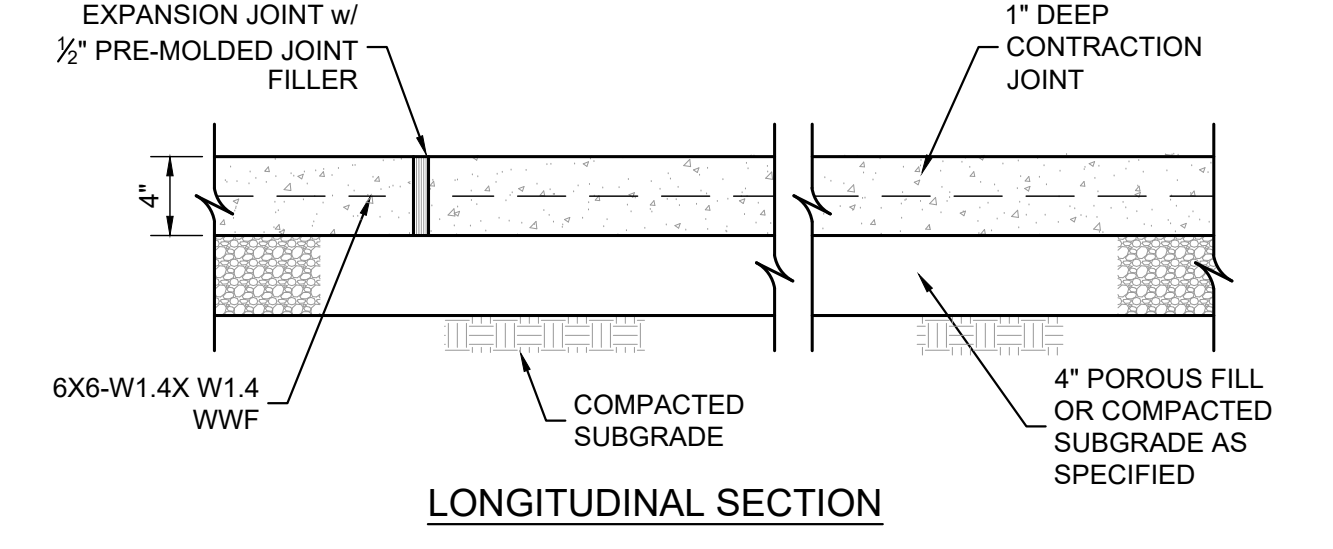
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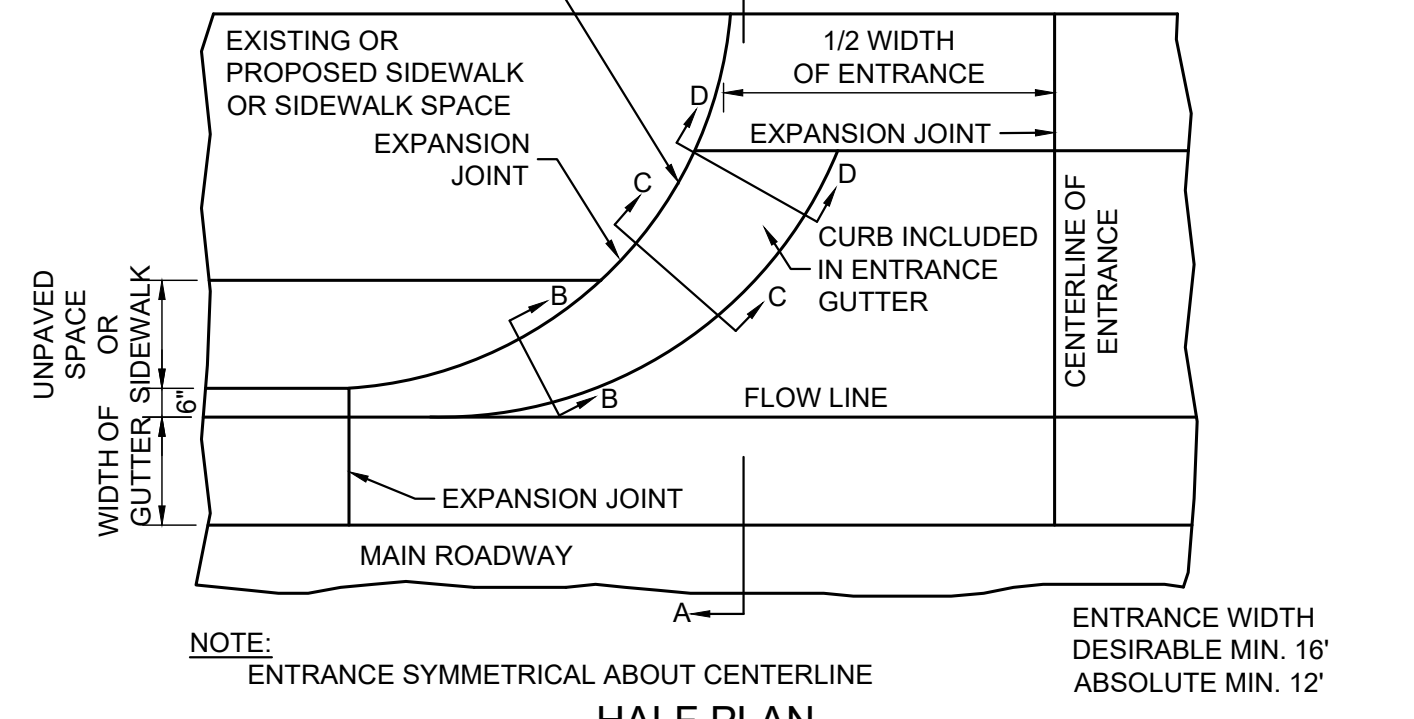
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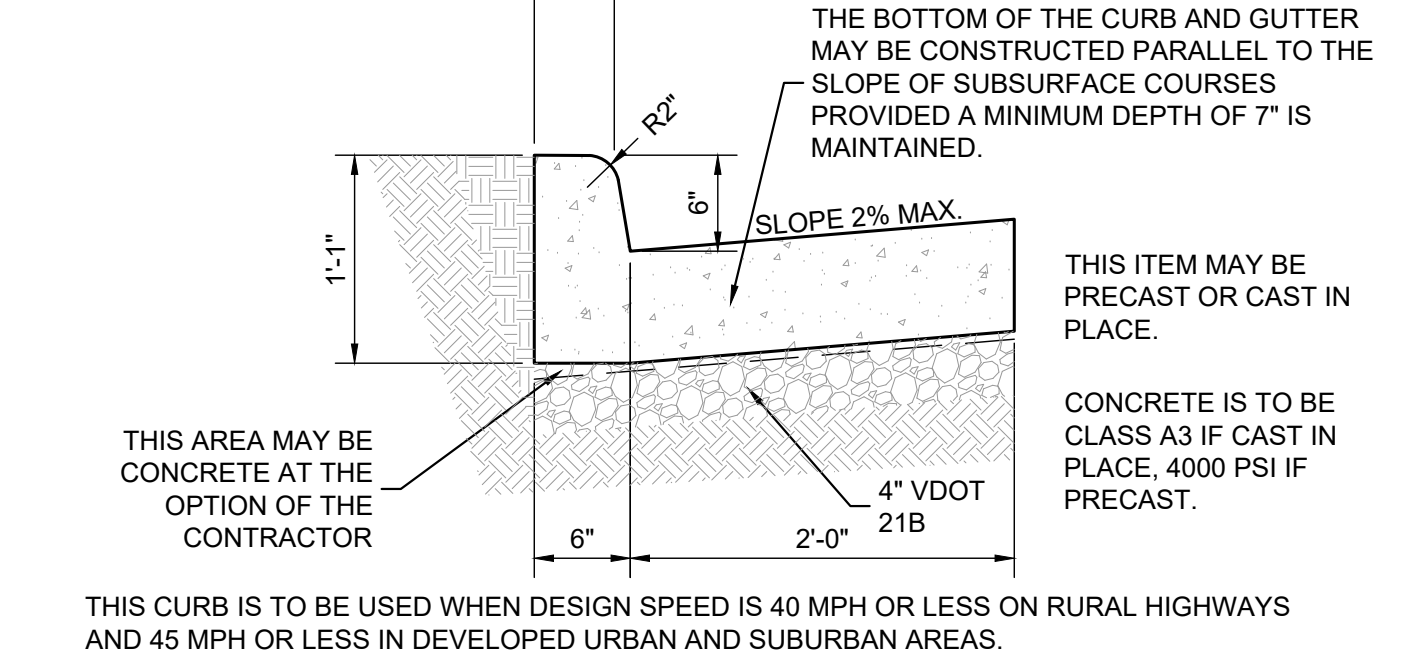
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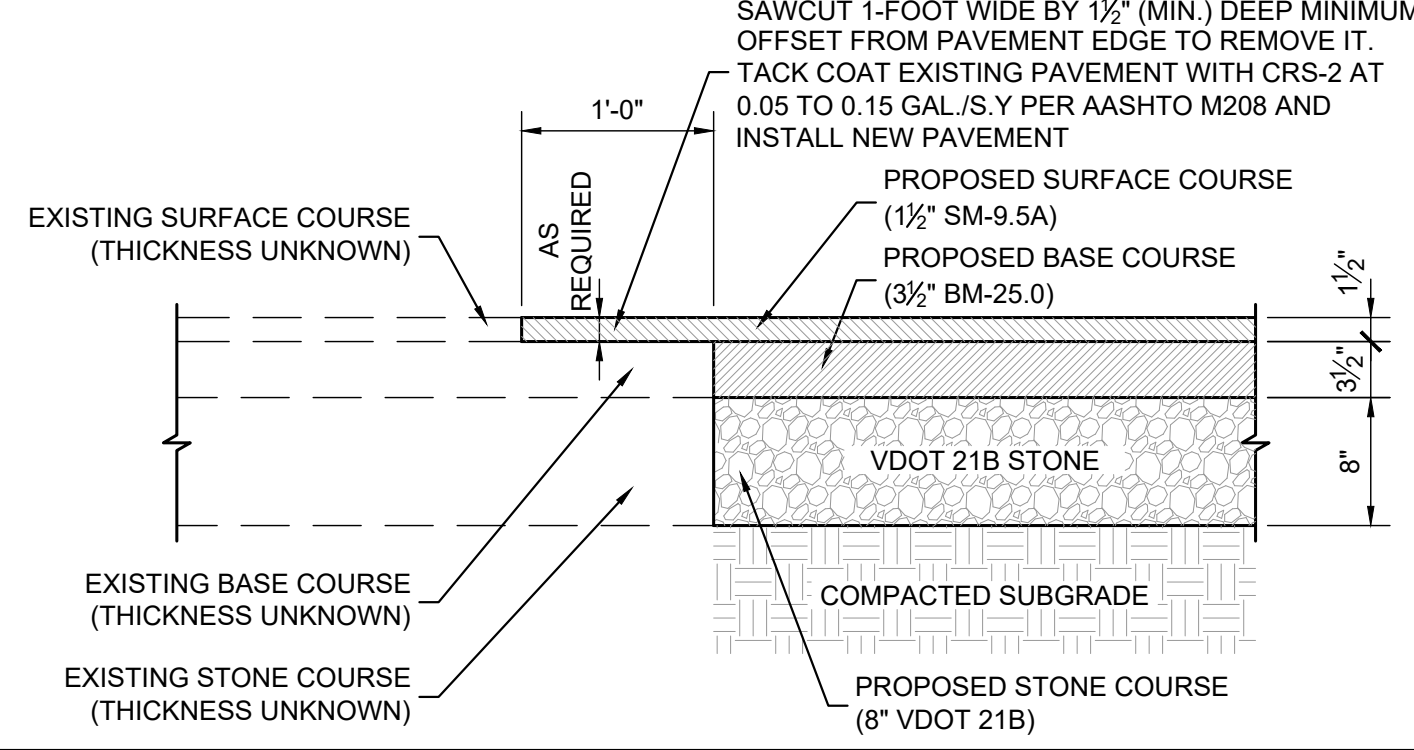
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CG-9D ENTRANCE DETAIL  
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STANDARD CG-6 CURB AND GUTTER  
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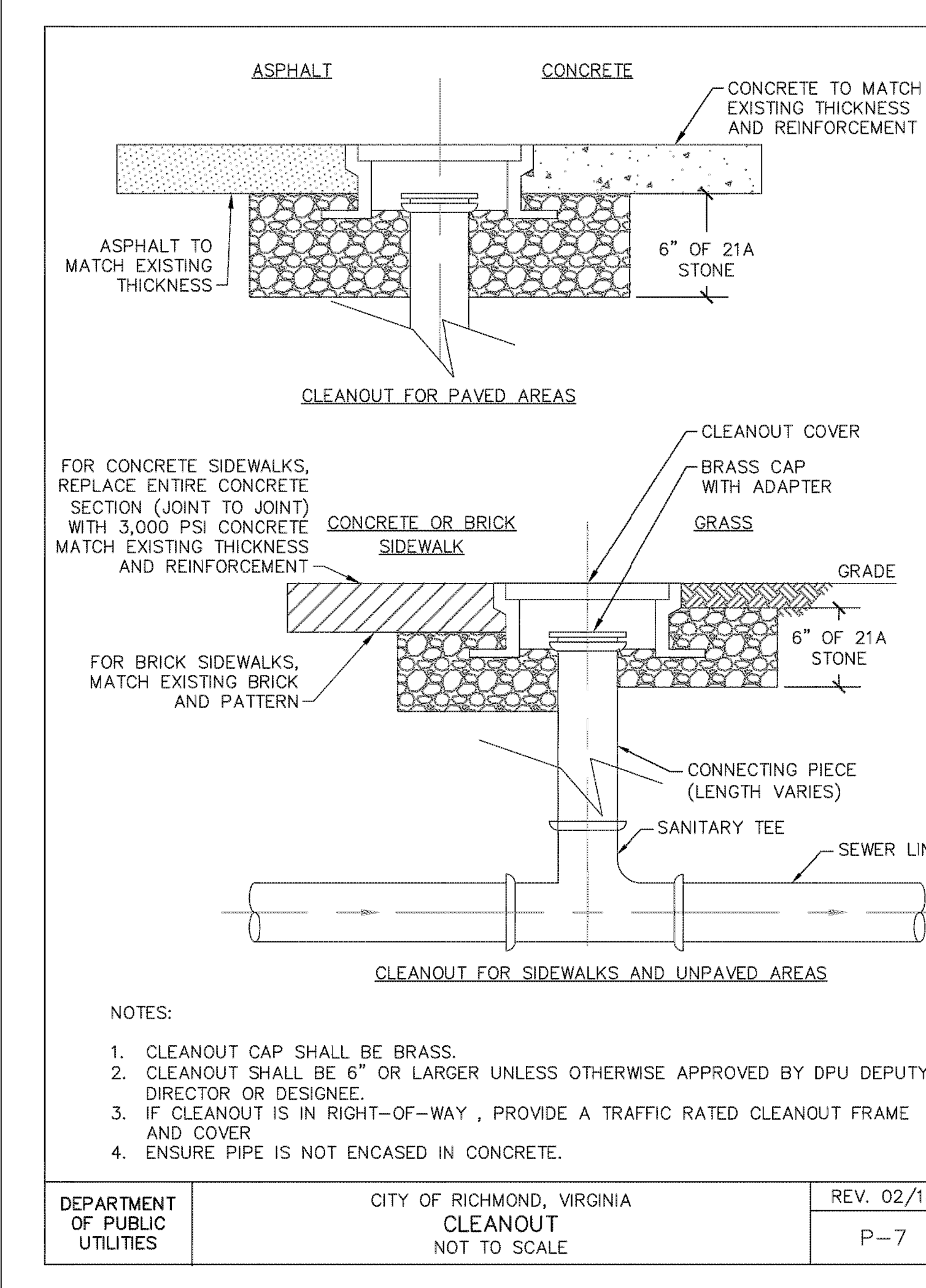
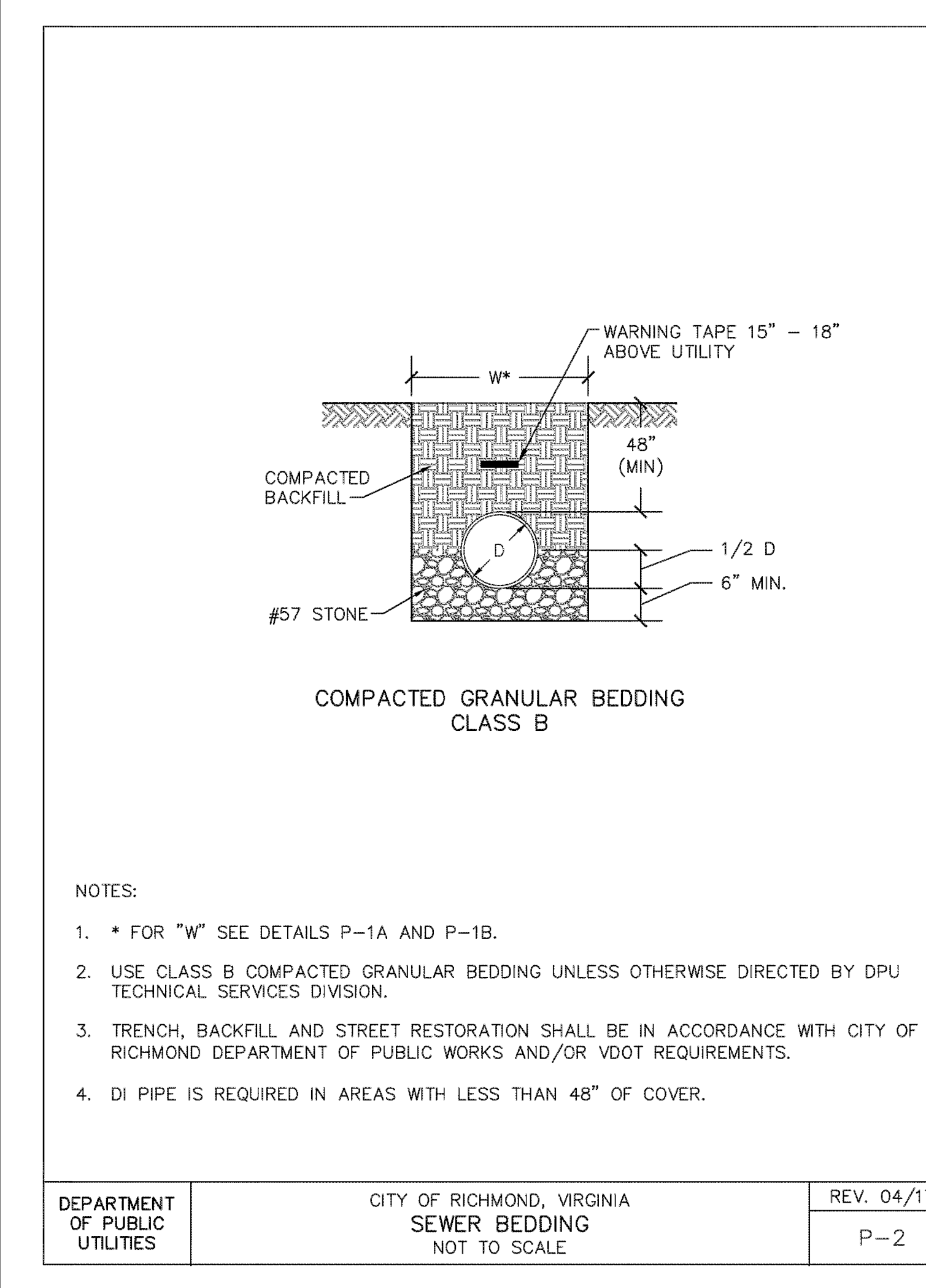
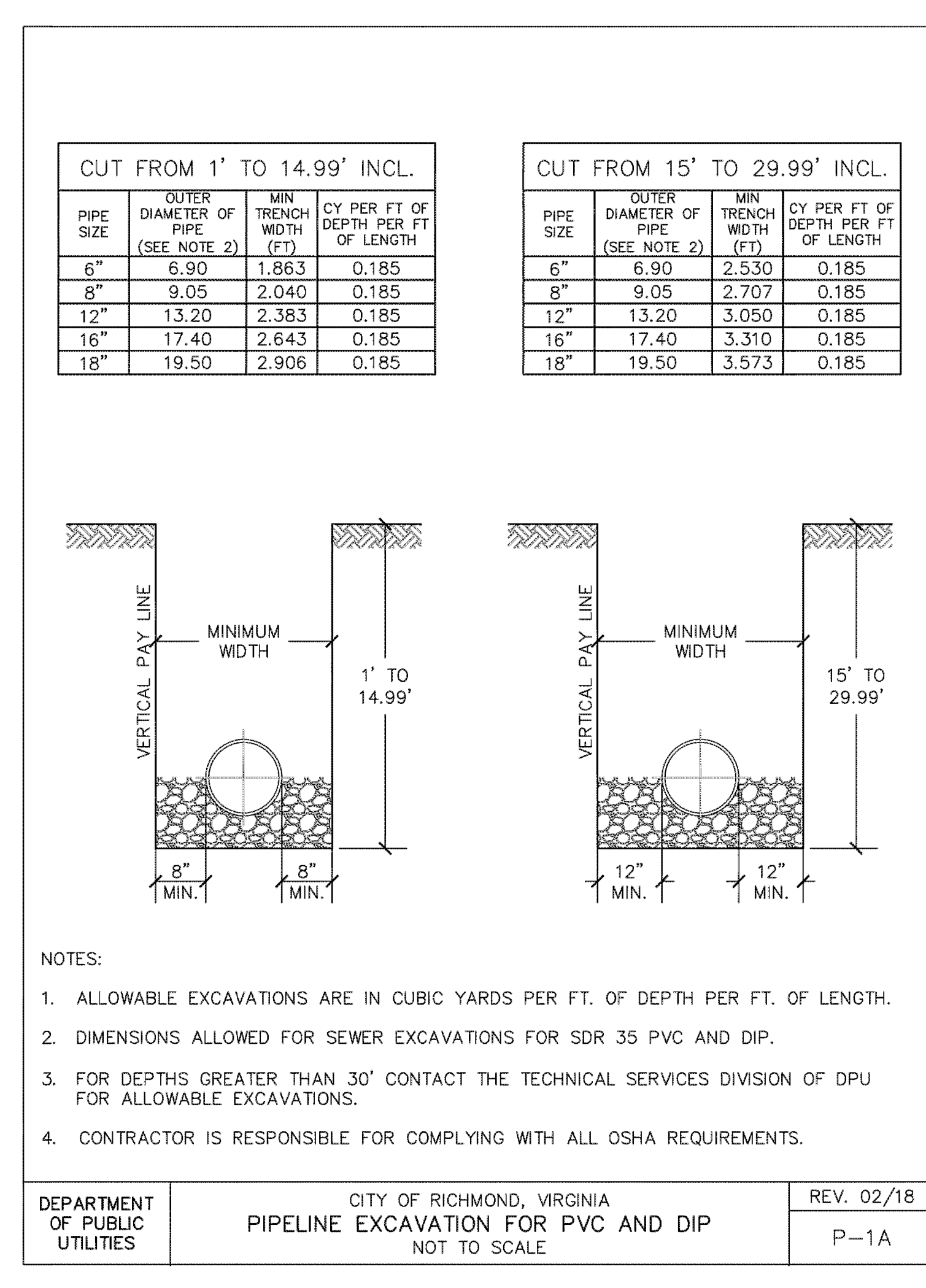
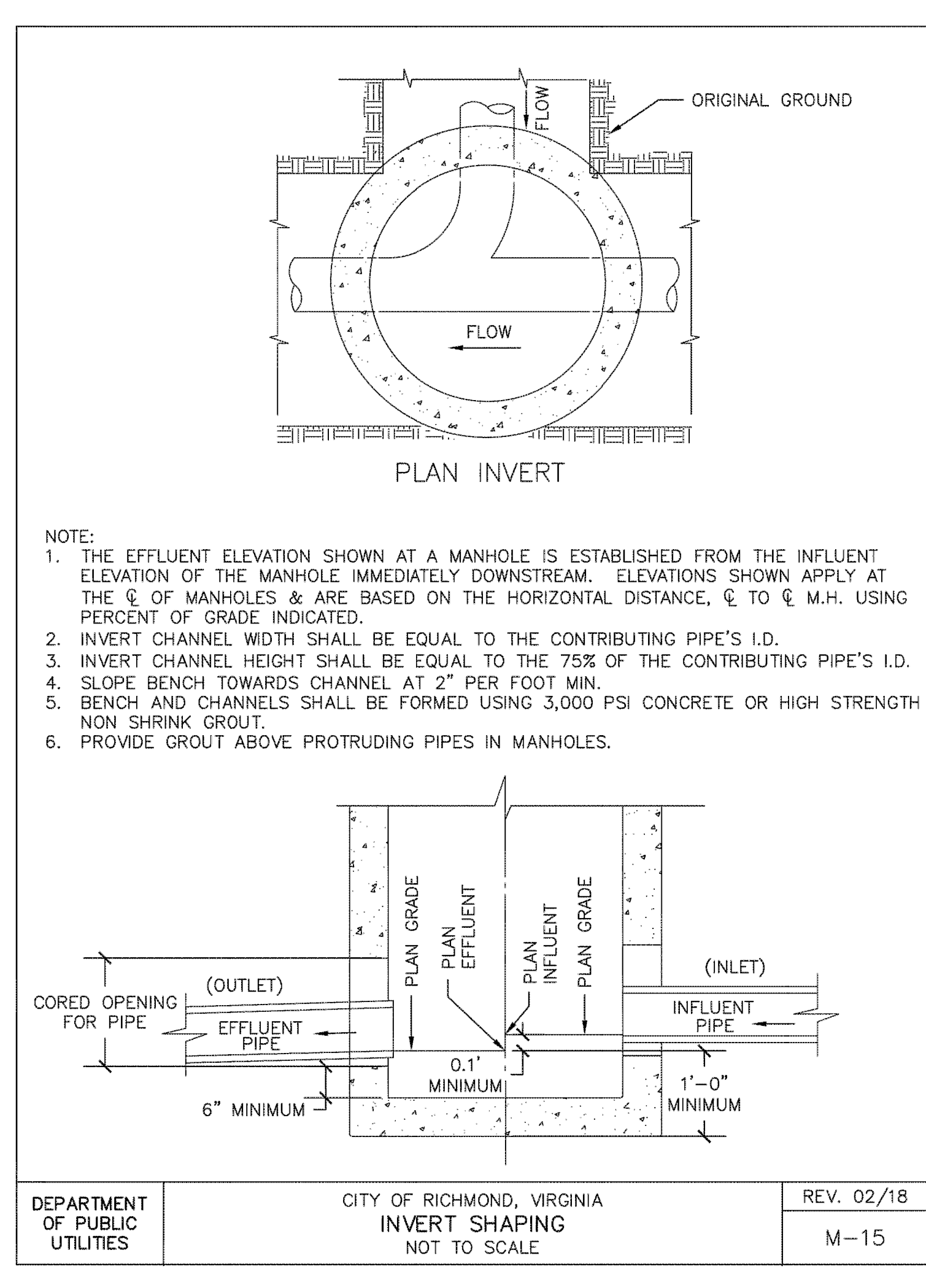
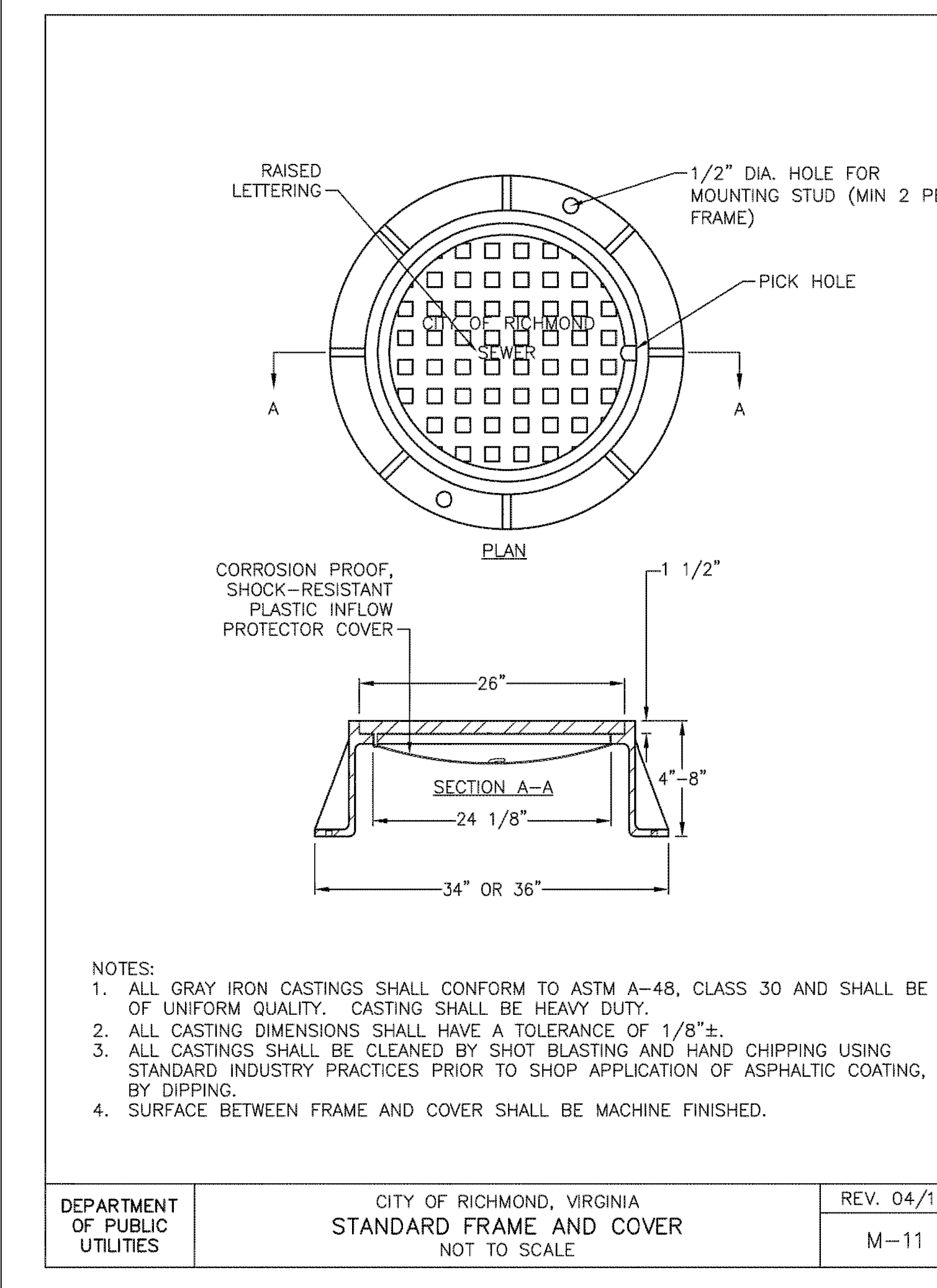
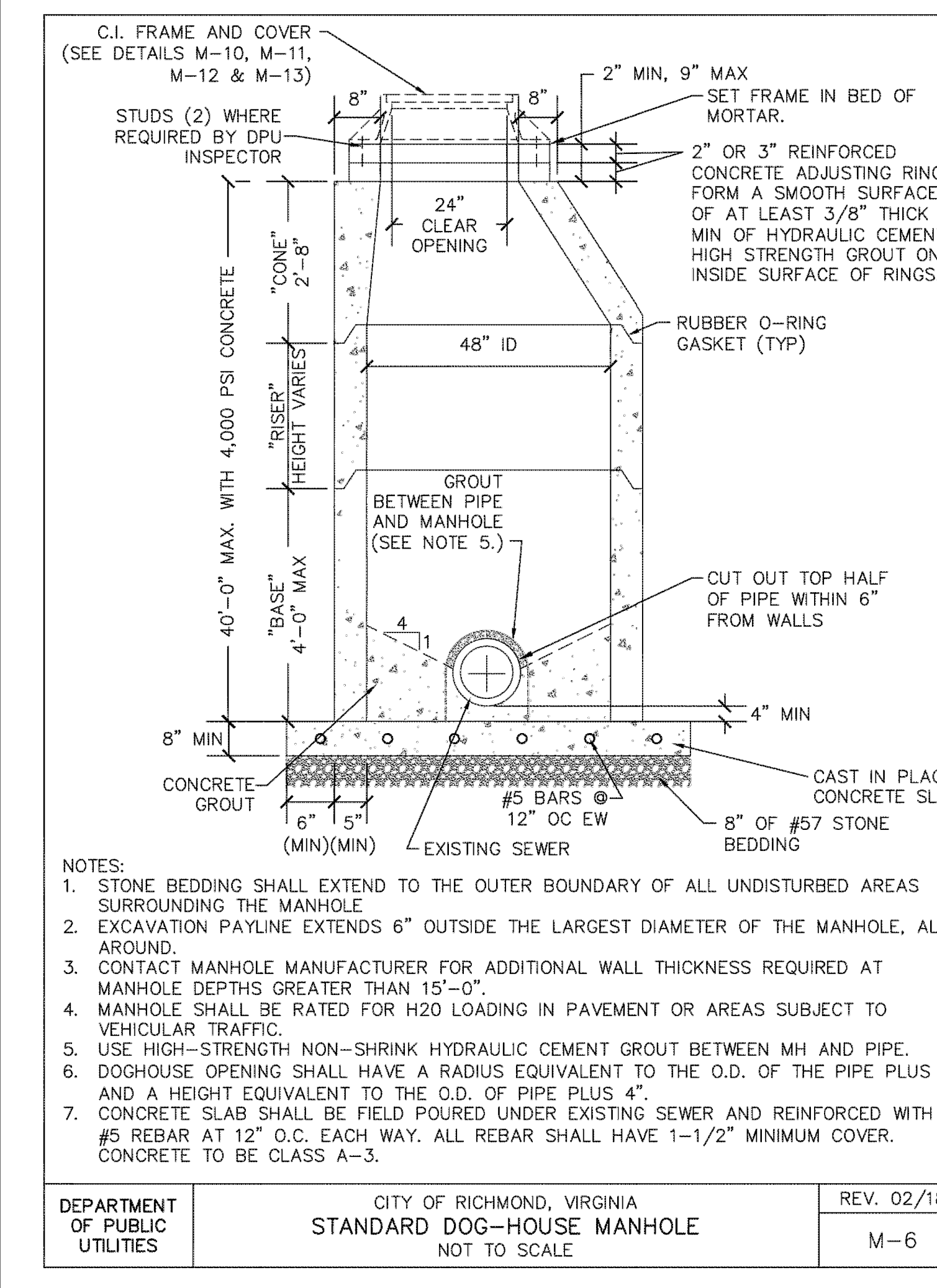
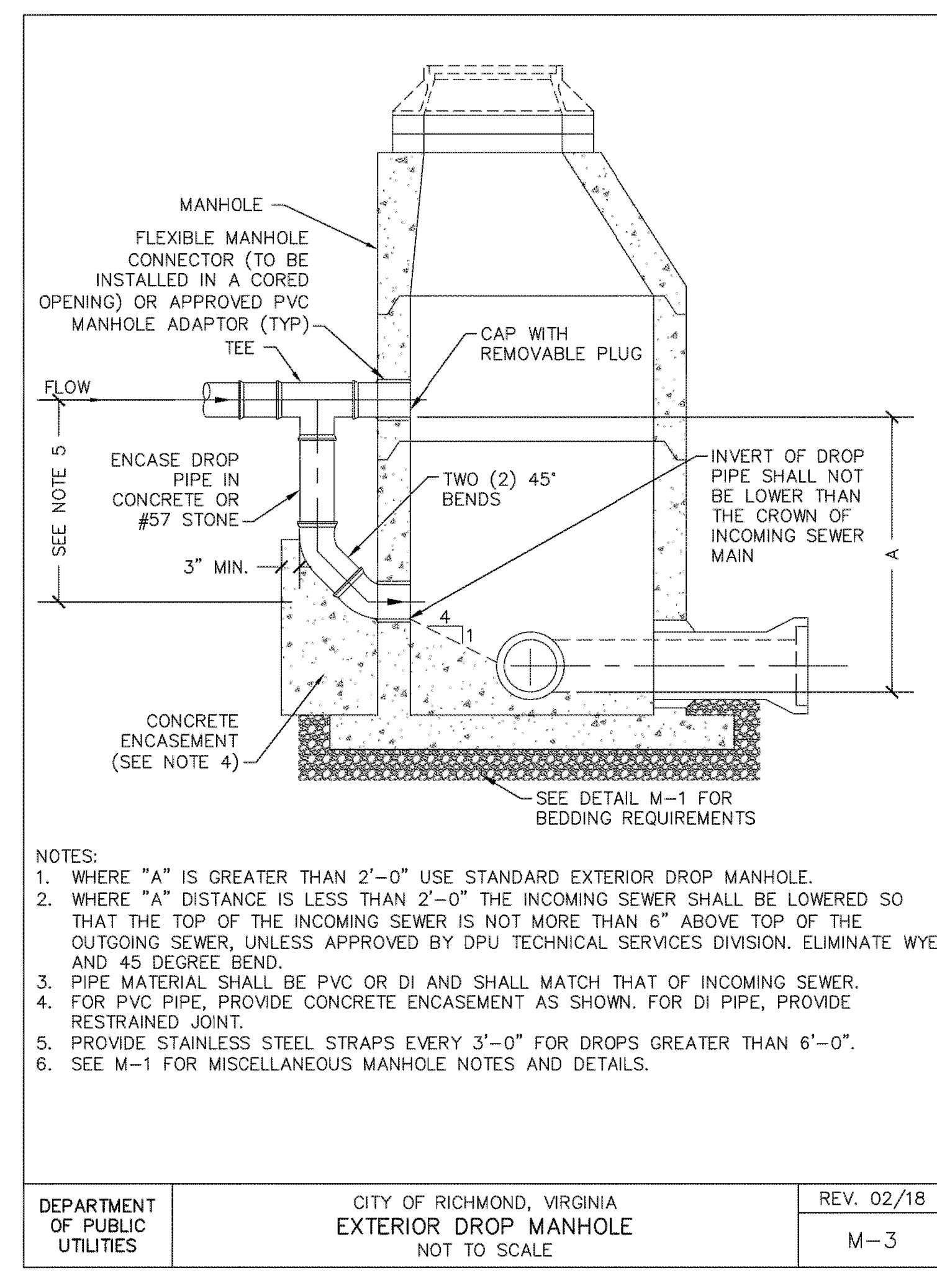
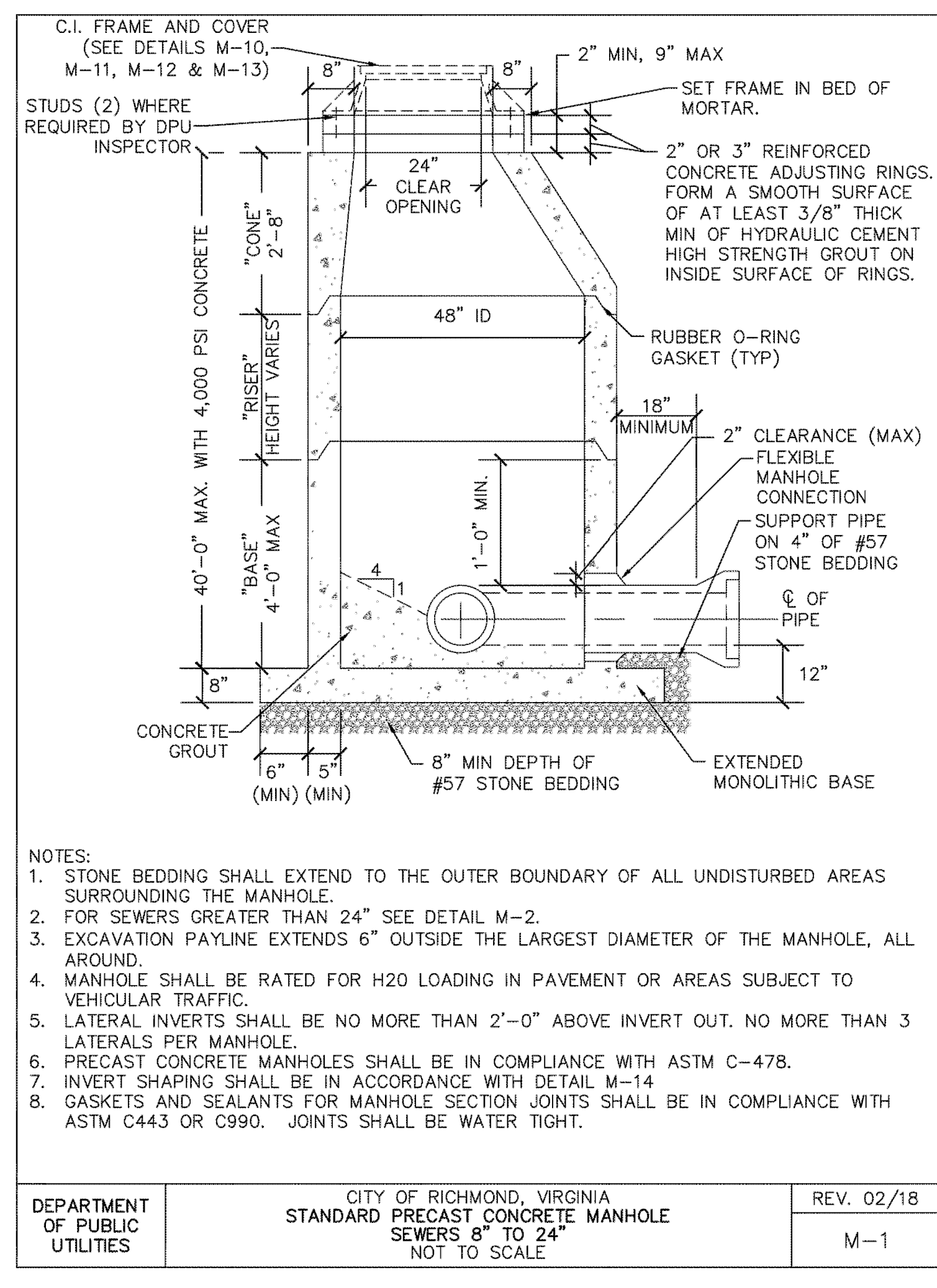
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ISSUE LOG

SPECIAL USE PERMIT	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION	DATE	NO.





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**HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE**

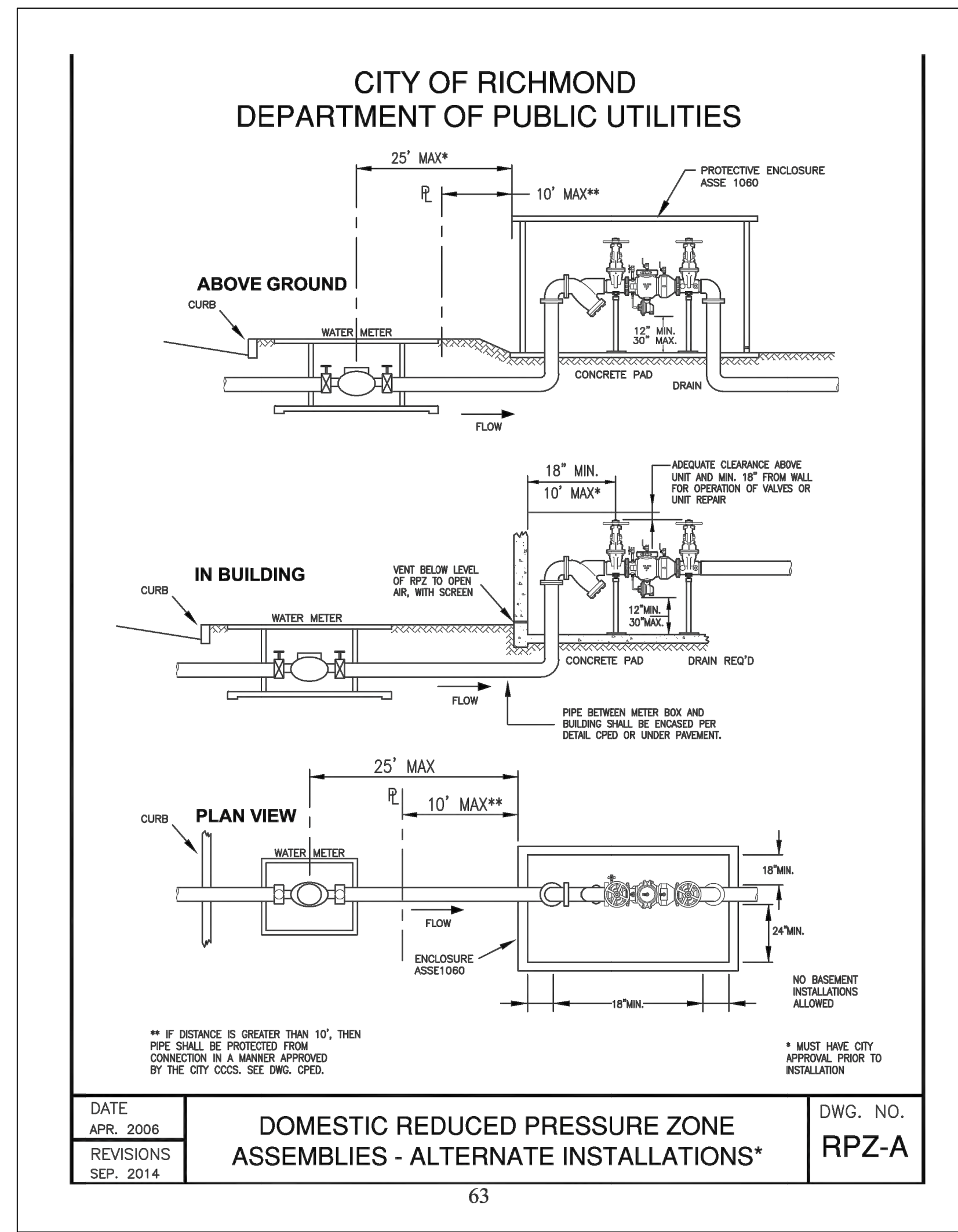
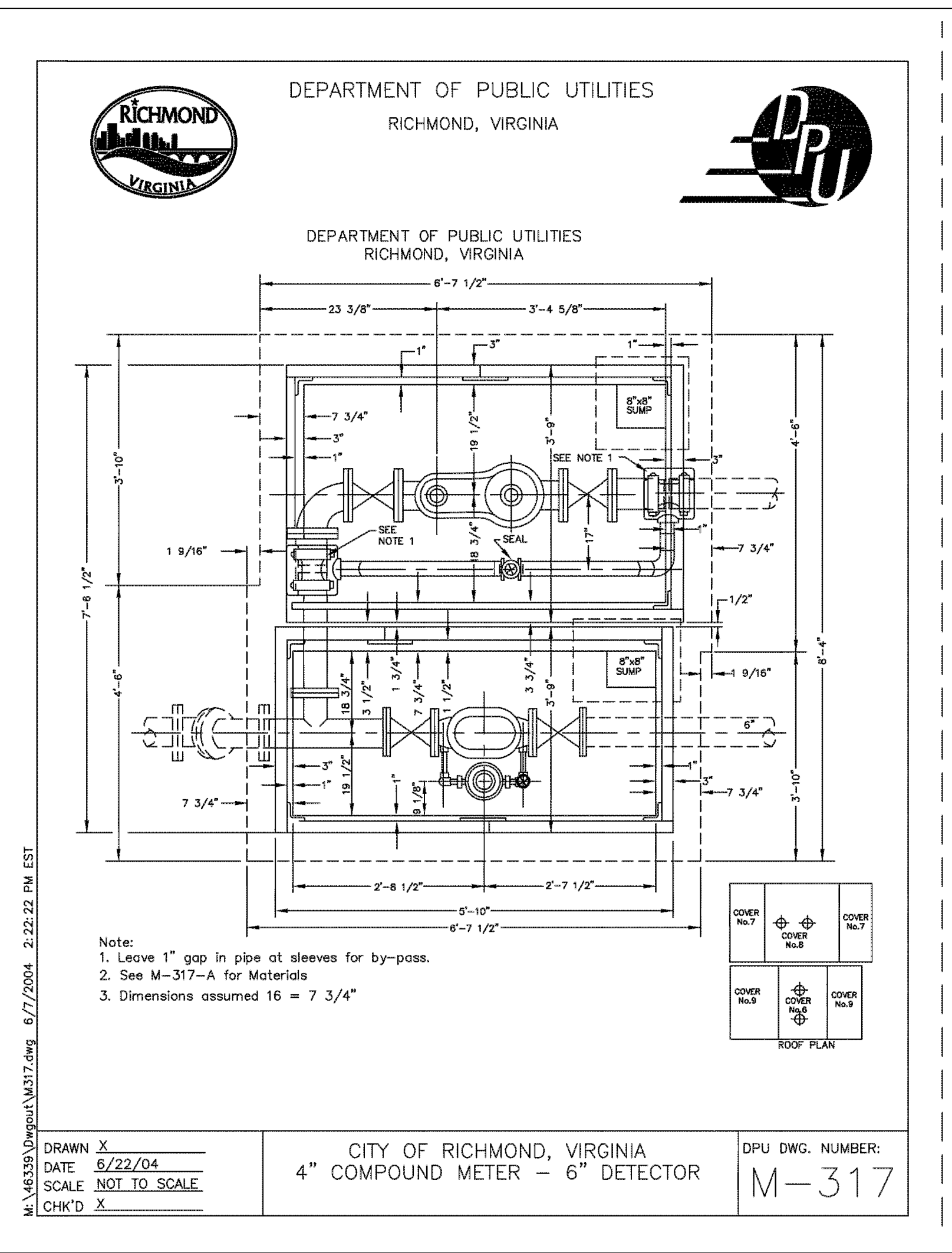
601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

SPECIAL USE PERMIT	DATE
CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION	DATE	NO.

PROFESSIONAL ENGINEER  
KEITH A. SCHULTEN  
Lic. No. 36359  
10/14/2020



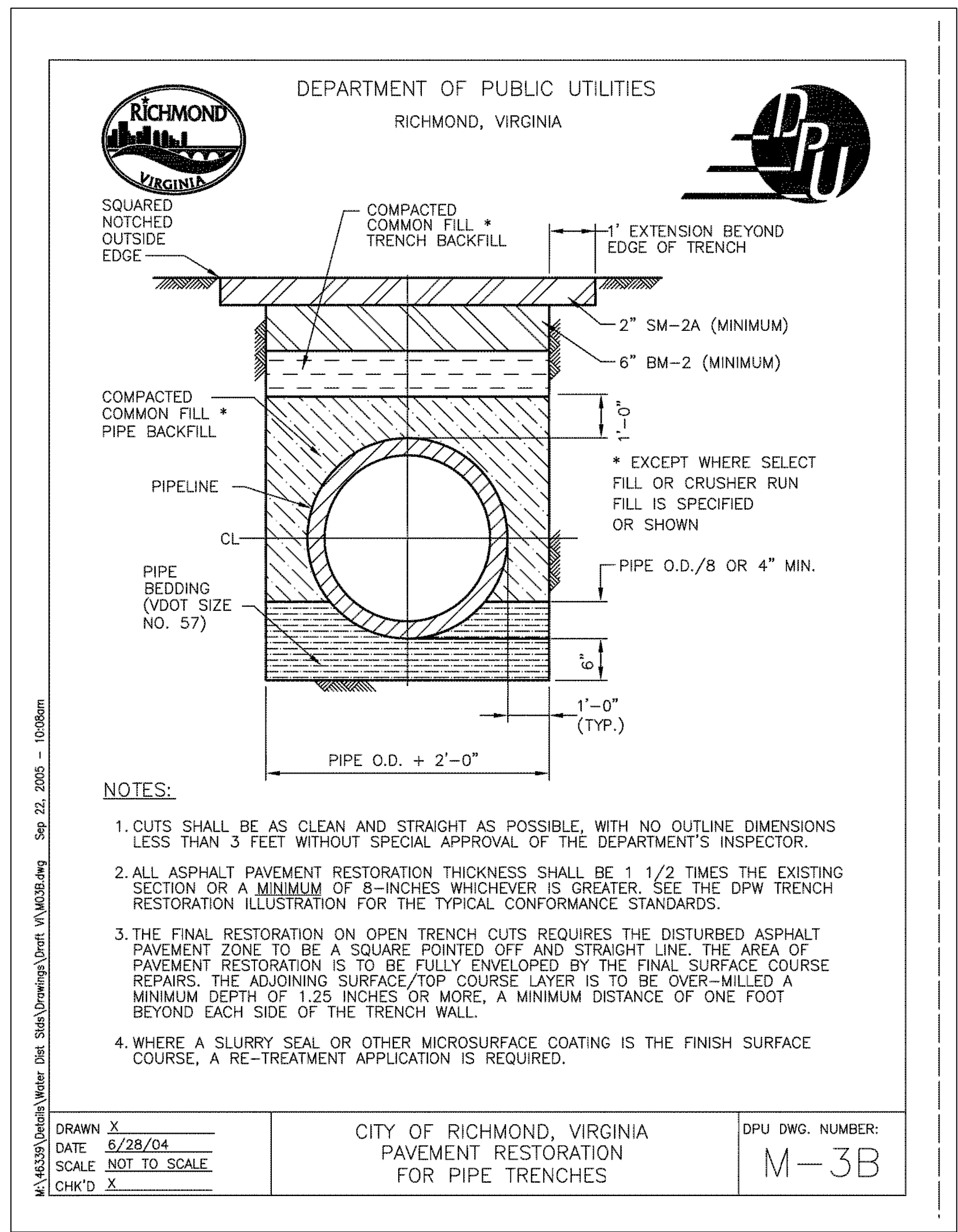
CITY OF RICHMOND  
DEPARTMENT OF PUBLIC UTILITIES

TYPICAL INSTALLATION PROCEDURES

DATE APR. 2006  
REVISIONS SEP. 2014

TYPICAL INSTALLATION PROCEDURES

DWG. NO.  
RPZ-IP



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HEADQUARTERS EXPANSION  
PARKING DECK AND BRIDGE

601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

SPECIAL USE PERMIT	DATE
CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020



Sheet Name:  
UTILITY DETAILS

Sheet Number:  
**C1104**

Hourigan Project Number: 19053



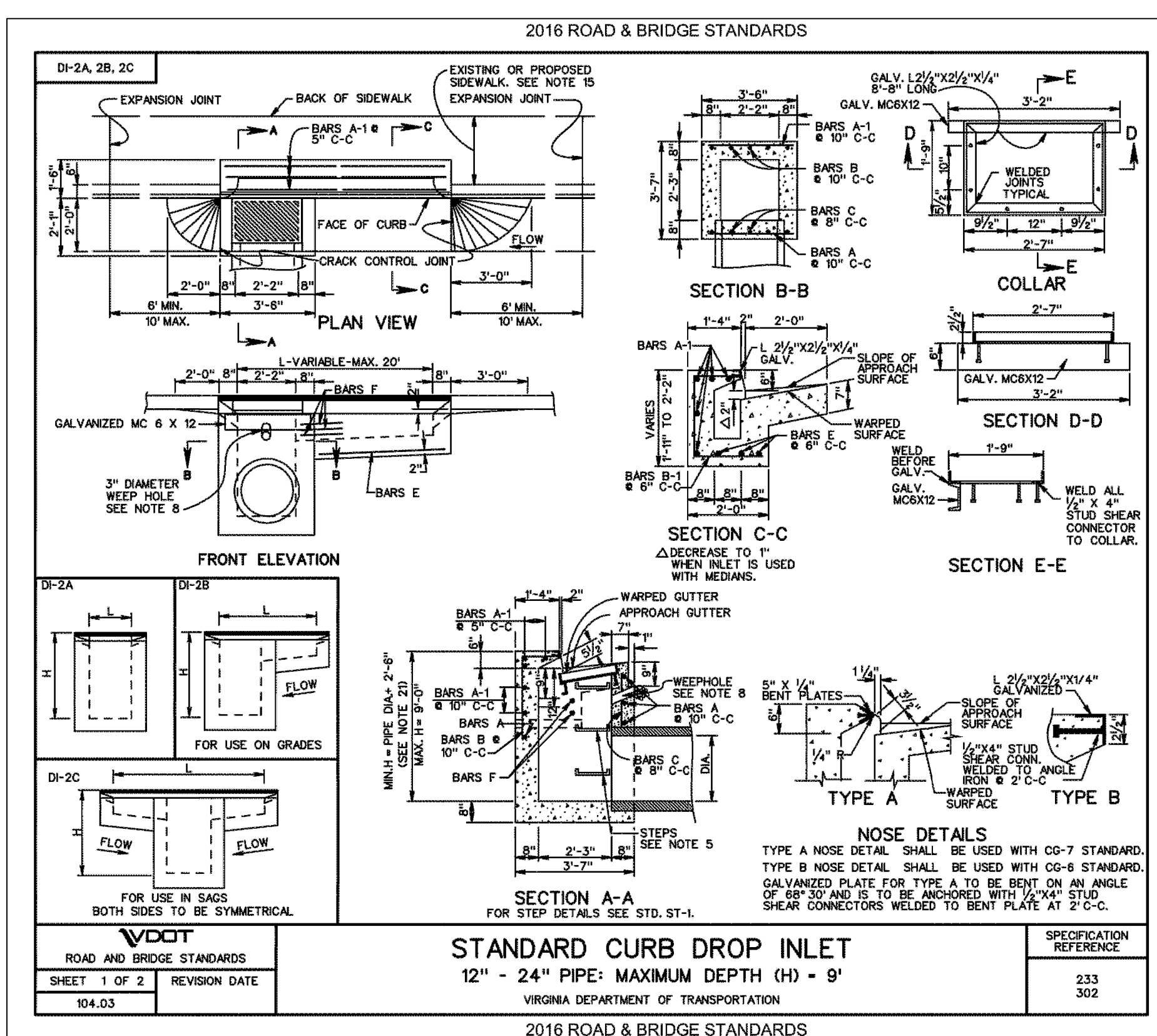
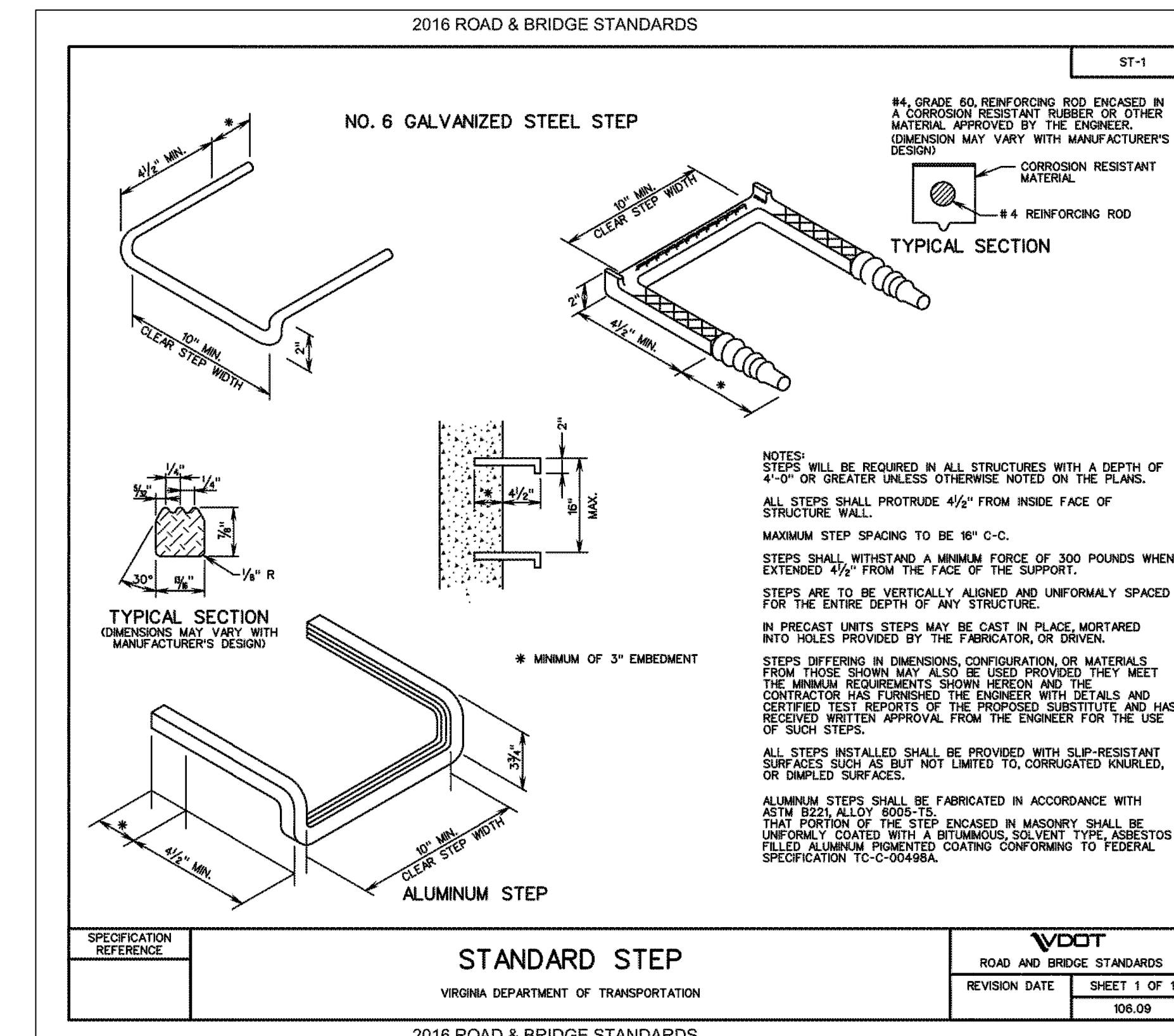
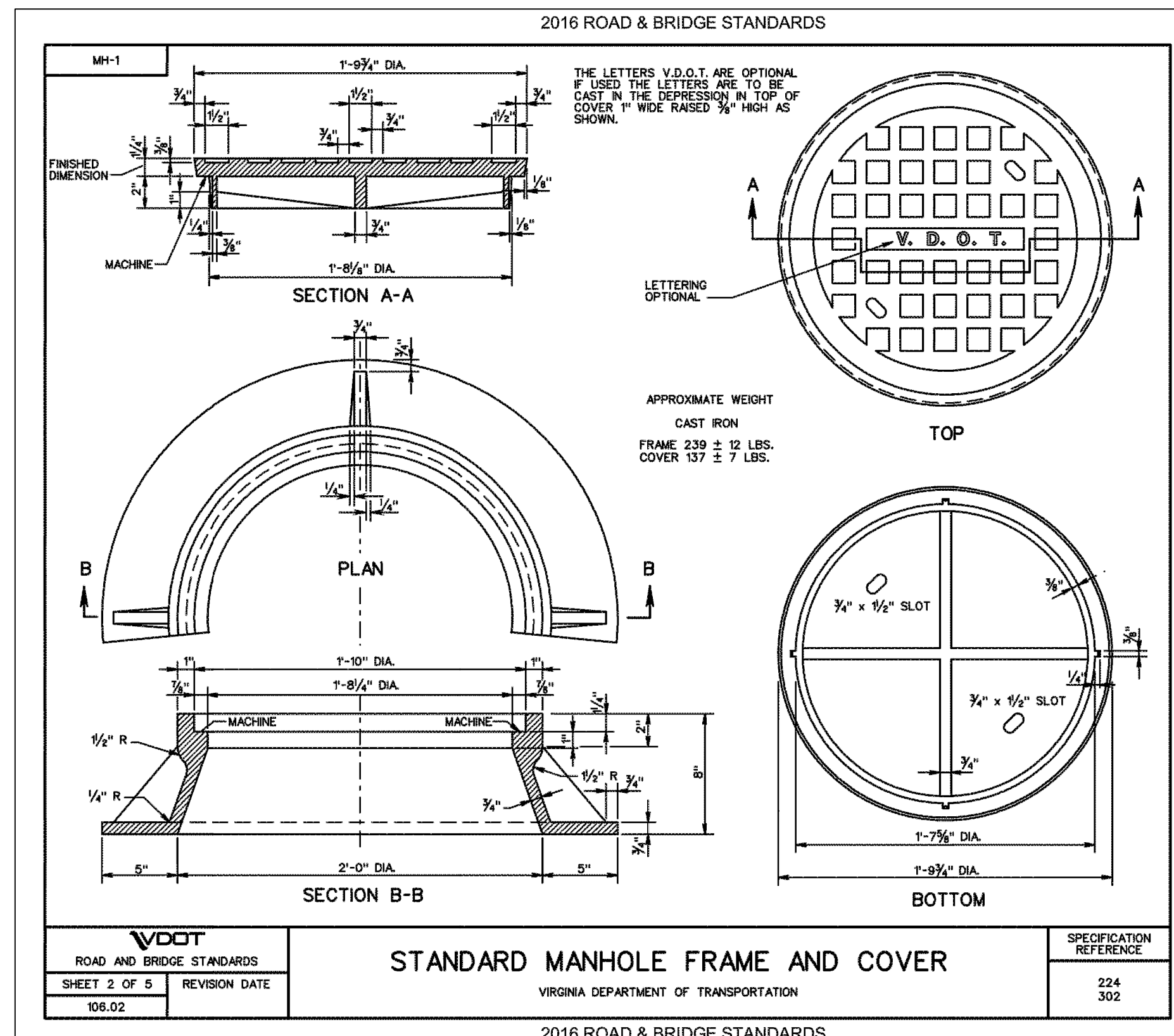
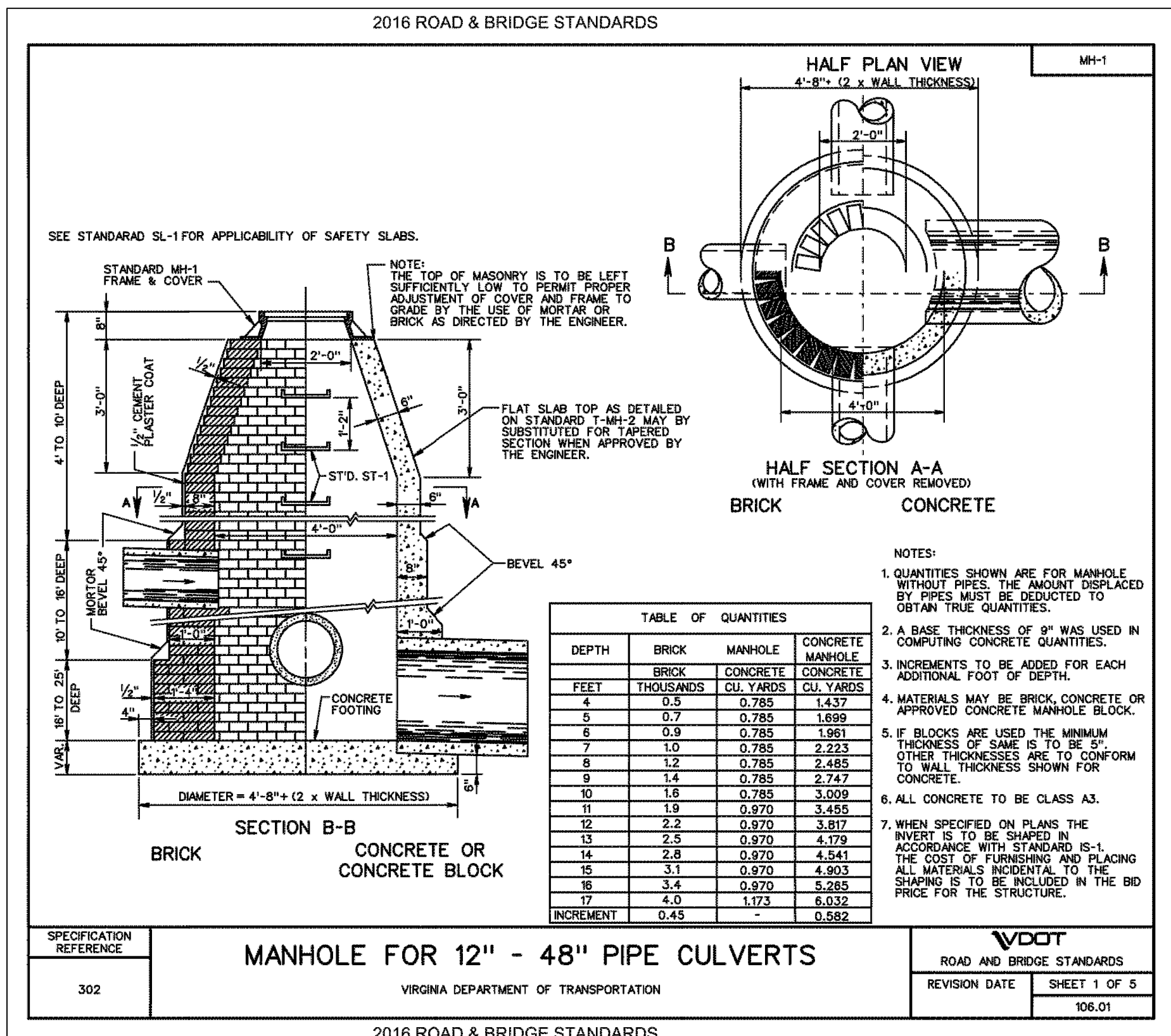


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	3'-0"	2.23	4	3'-0"	1'-0"	4	3'-0"	1.05
D1-2B	12'	2.91	4	3'-0"	1'-0"	4	3'-0"	1.05
	18'	3.79	4	3'-0"	1'-0"	4	3'-0"	1.05
D1-2C	12'	3.34	4	3'-0"	1'-0"	4	3'-0"	1.05
	18'	4.61	4	3'-0"	1'-0"	4	3'-0"	1.05

STANDARD CURBED DROP INLET  
 12" - 24" PIPE; MAXIMUM DEPTH (H)=9'  
 VIRGINIA DEPARTMENT OF TRANSPORTATION  
 SHEET 2 OF 2  
 104.04

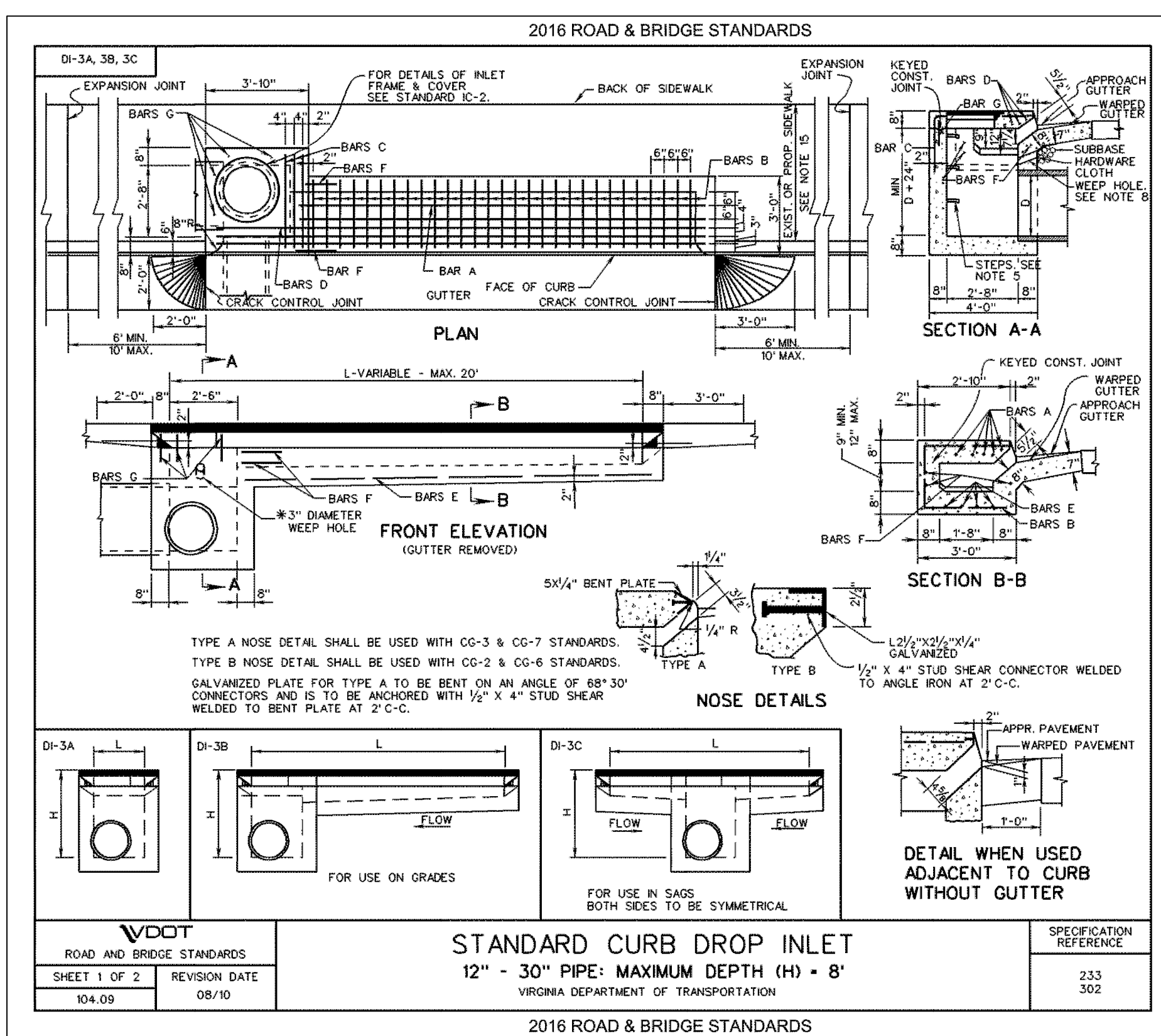
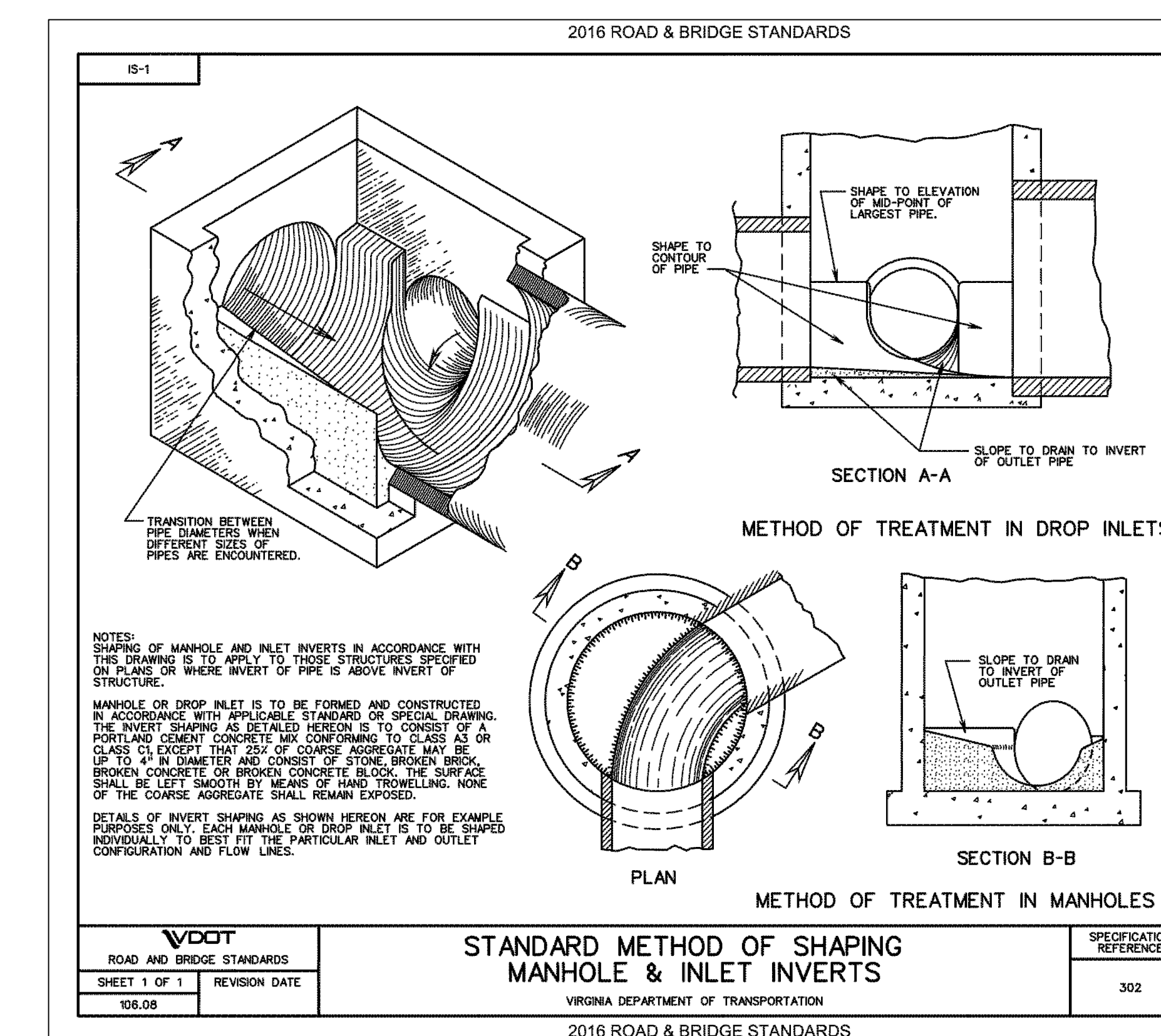


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	6'-0"	27.0	4.02	5	1'-0"	2	0'-7" to 0'-2"	3	0'-7"
D1-3B	12'	3.67	3.45	5	0'-0"	0	0'-0" to 0'-2"	3	0'-0"
	18'	4.58	3.99	5	0'-0"	0	0'-0" to 0'-2"	3	0'-0"

STANDARD CURBED DROP INLET  
 12" - 30" PIPE; MAXIMUM DEPTH (H) = 8'  
 VIRGINIA DEPARTMENT OF TRANSPORTATION  
 SHEET 2 OF 2  
 104.10

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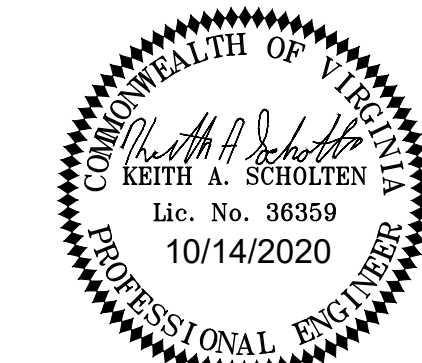


HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE  
 601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

ISSUE LOG

SPECIAL USE PERMIT	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

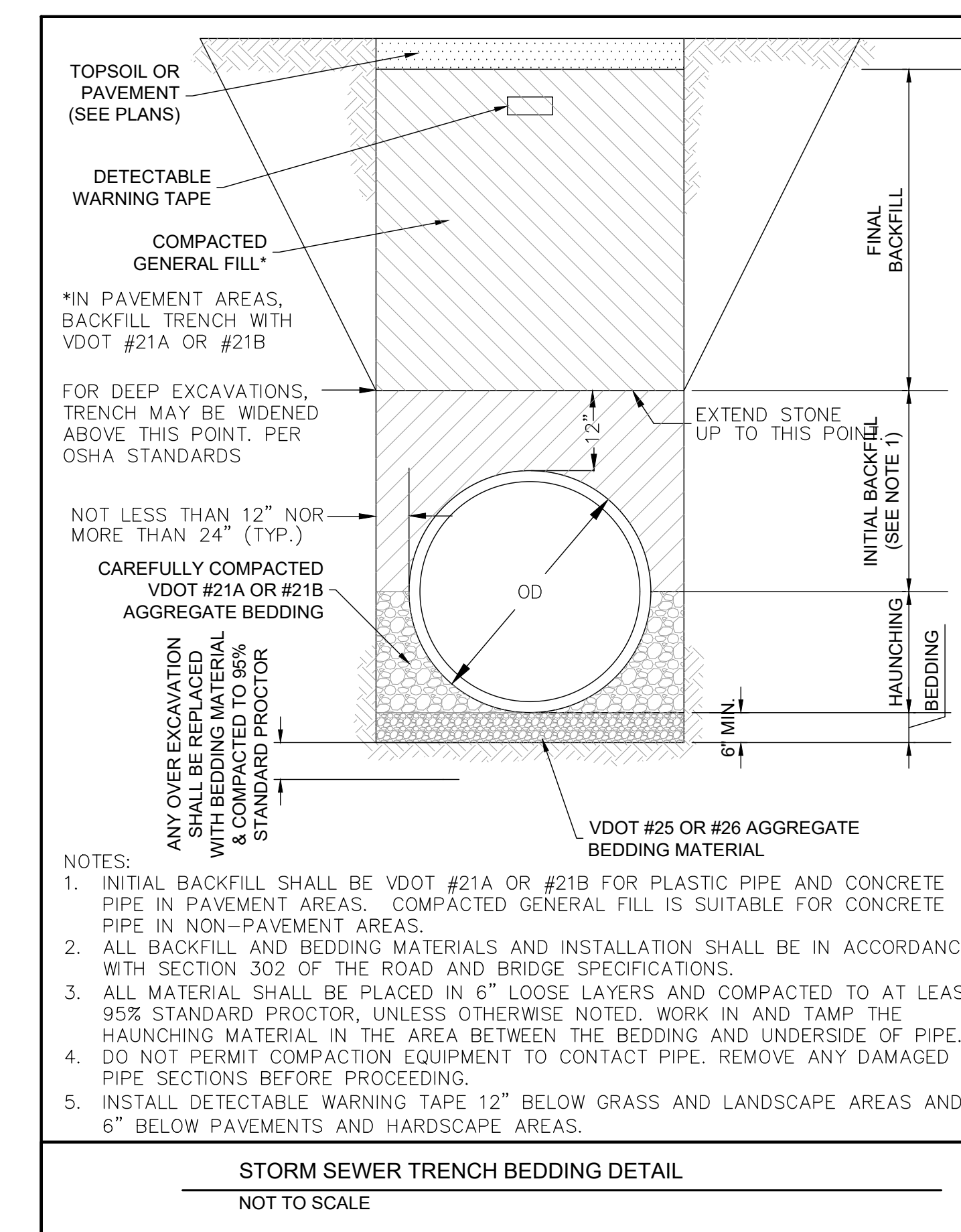
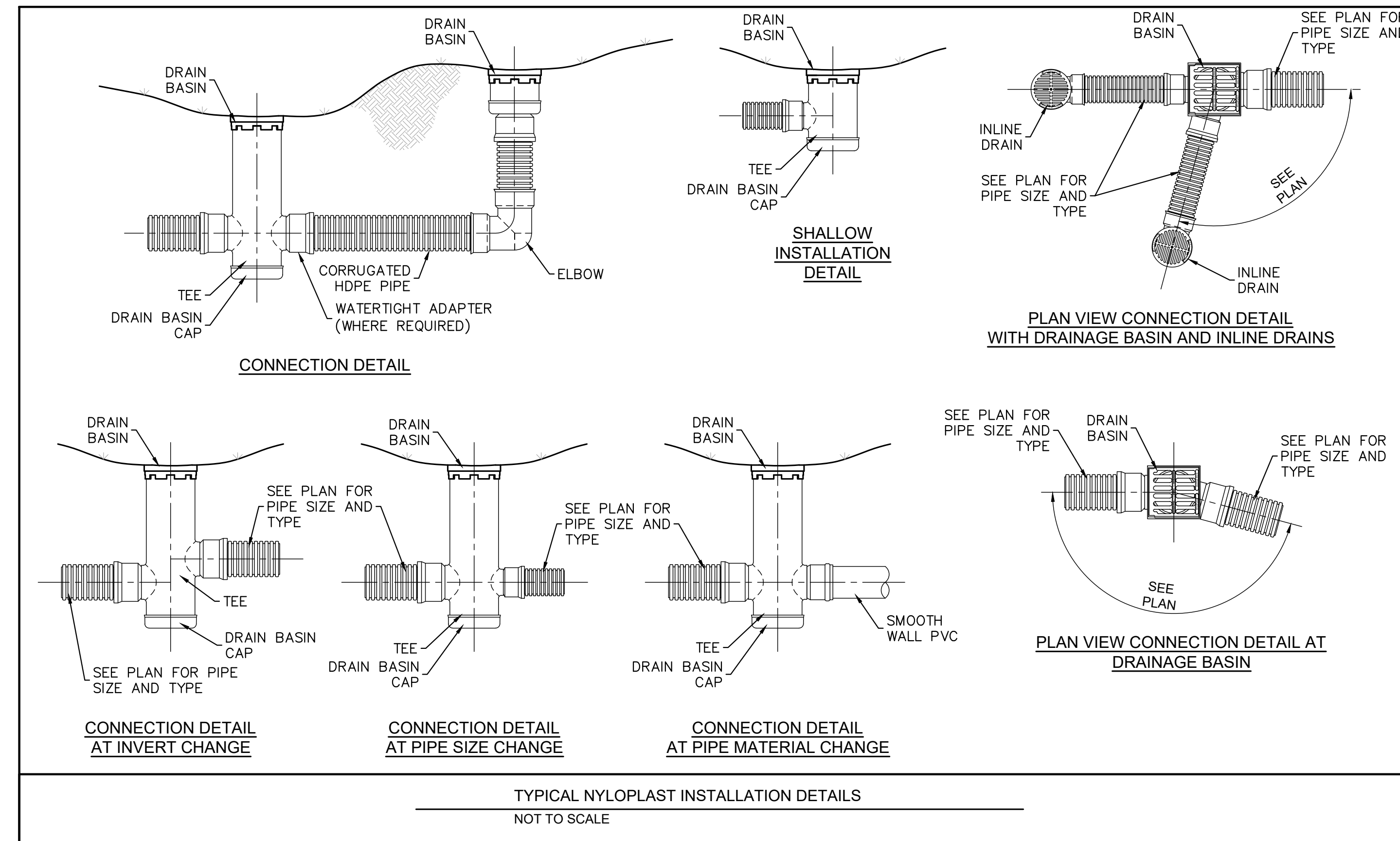
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Sheet Name:  
**STORM DETAILS**

Sheet Number:  
**C1105**

Hourigan Project Number: 19053



**VHDA**  
 HEADQUARTERS EXPANSION  
 PARKING DECK AND BRIDGE  
 601 SOUTH BELVIDERE STREET, RICHMOND, VIRGINIA

**ISSUE LOG**

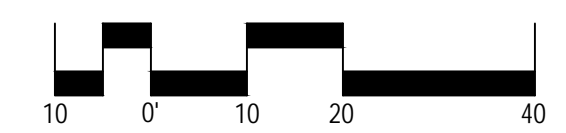
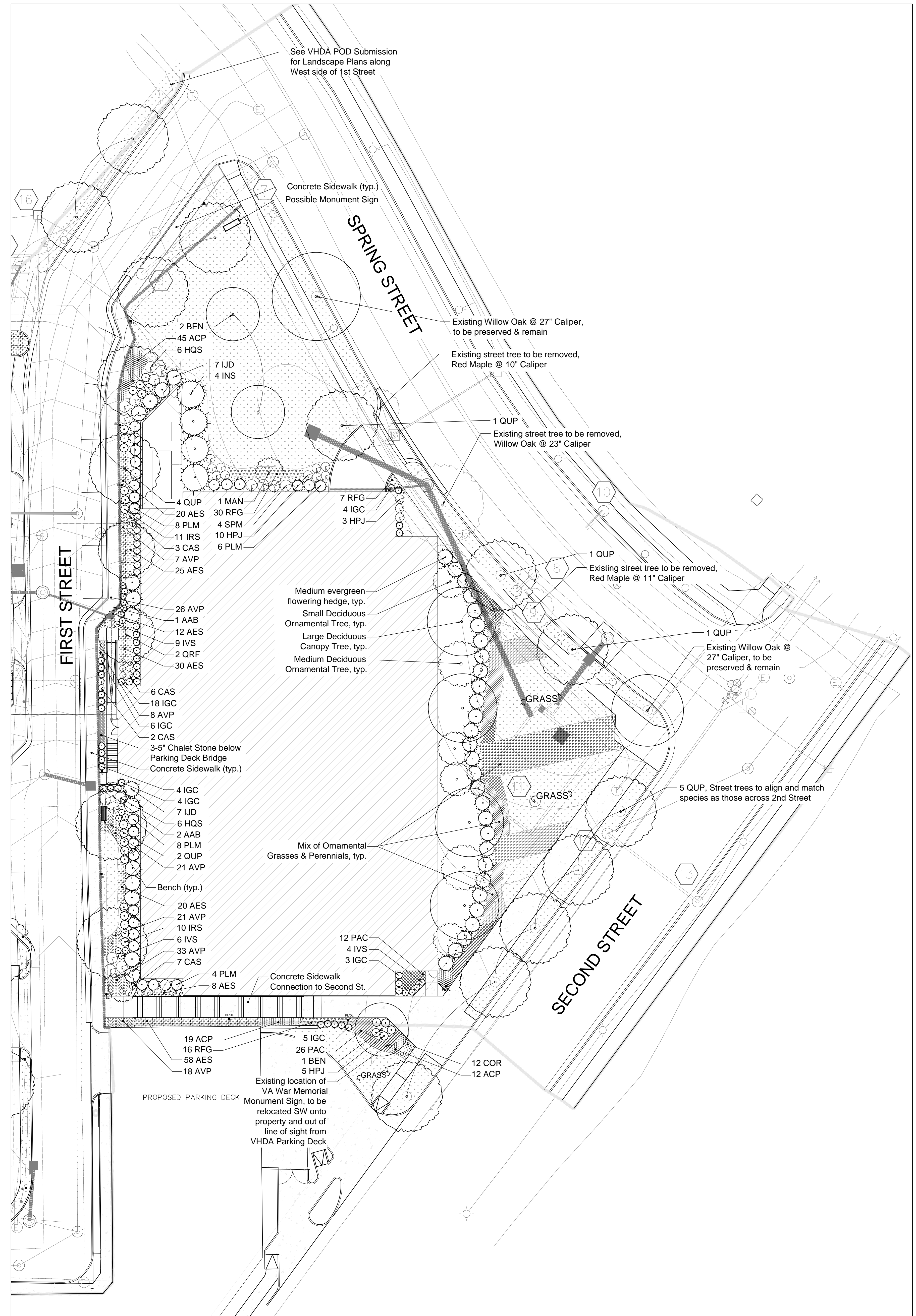
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CITY COMMENTS	4/14/2020
CITY COMMENTS	7/31/2020
CITY COMMENTS	10/14/2020

DESCRIPTION	DATE	NO.



Sheet Name:  
**STORM DETAILS**

Sheet Number:  
**C1106**



# VHDA HEADQUARTERS EXPANSION PARKING DECK AND BRIDGE

801 SOUTH BELVIDERE STREET RICHMOND, VIRGINIA

ISSUE LOG

SUBMISSION	DATE	NO.
SUP SUBMISSION I	04/14/2020	1
SUP SUBMISSION II	07/31/2020	2
SUP SUBMISSION III	10/13/2020	3

DESCRIPTION	DATE	NO.

**NOT FOR CONSTRUCTION**

Sheet Name:  
**PARKING DECK LANDSCAPE PLAN**

Sheet Number:  
**L101**





**HEADQUARTERS EXPANSION AND NEW PARKING FACILITIES**  
 RICHMOND, VIRGINIA 23220



ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
SUP COMMENT REVISIONS	10/13/2020

DESCRIPTION DATE NO.

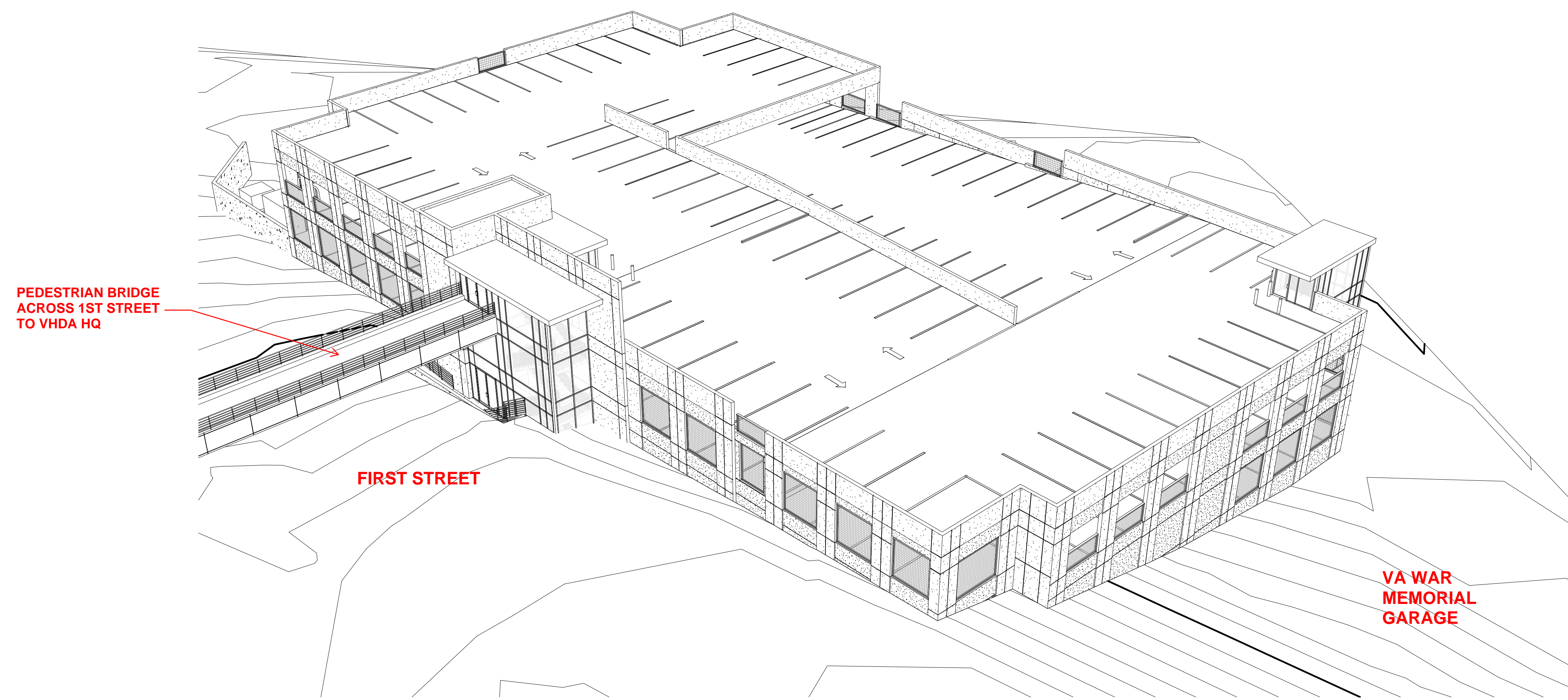
**NOT FOR CONSTRUCTION**

Sheet Name:  
3D VIEWS

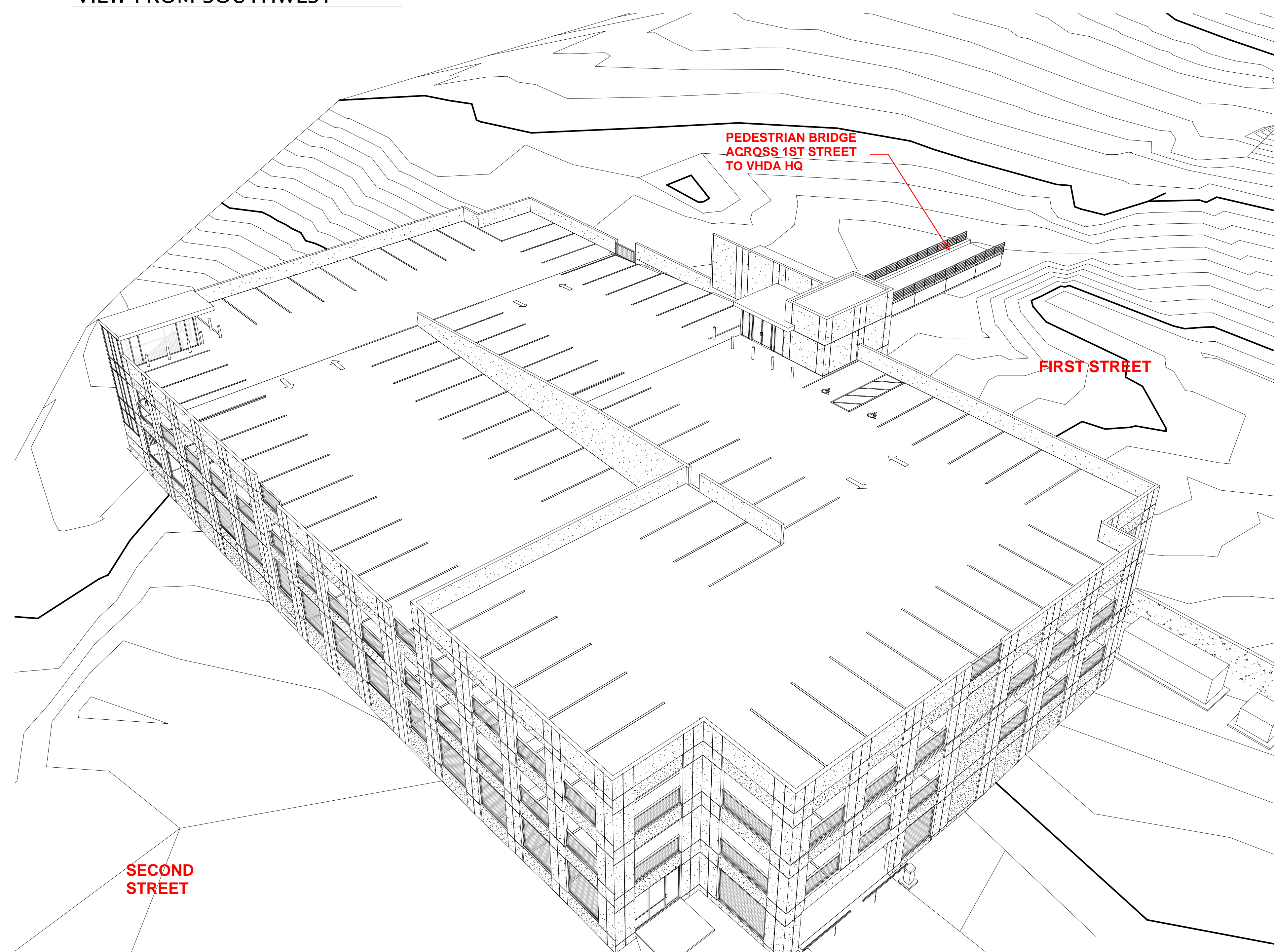
Sheet Number:

**AM.1**

Project Number: 2001.00



VIEW FROM SOUTHWEST



VIEW FROM NORTHEAST

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020

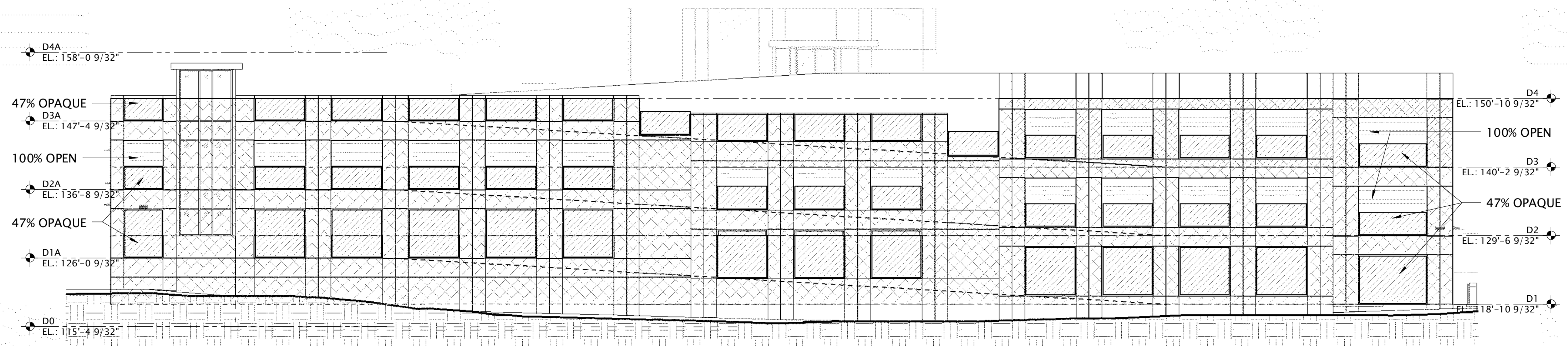
DESCRIPTION	DATE	NO.
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NOT FOR CONSTRUCTION

Sheet Name:  
VENTILATION CALCULATIONS

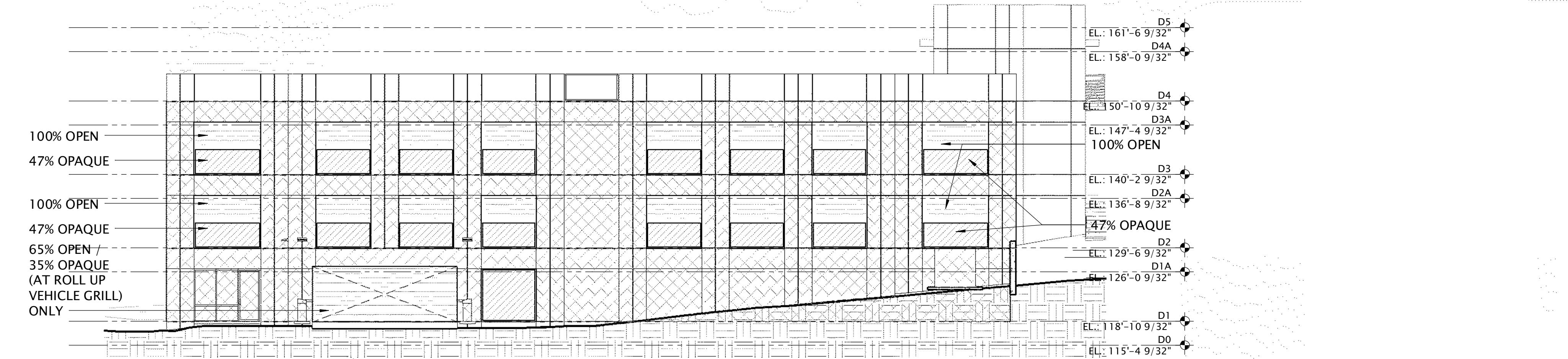
Sheet Number:  
A003

Project Number: 2001.00



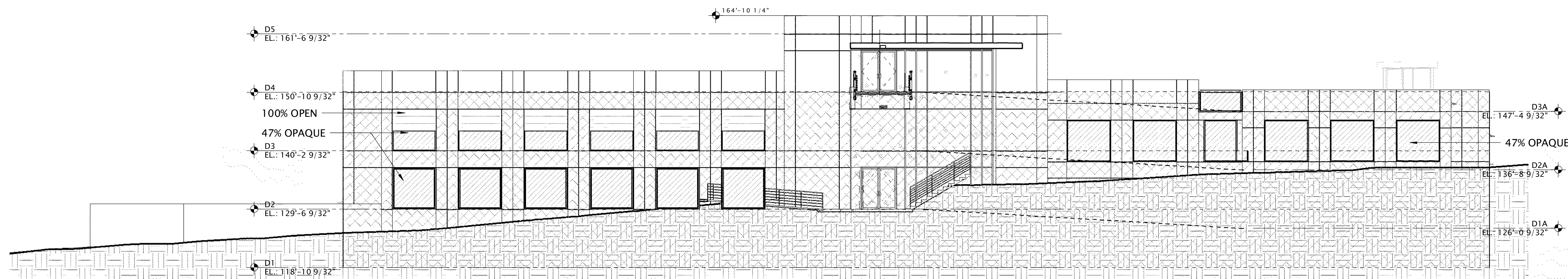
1 EAST ELEVATION

SCALE: 3/32" = 1'-0"



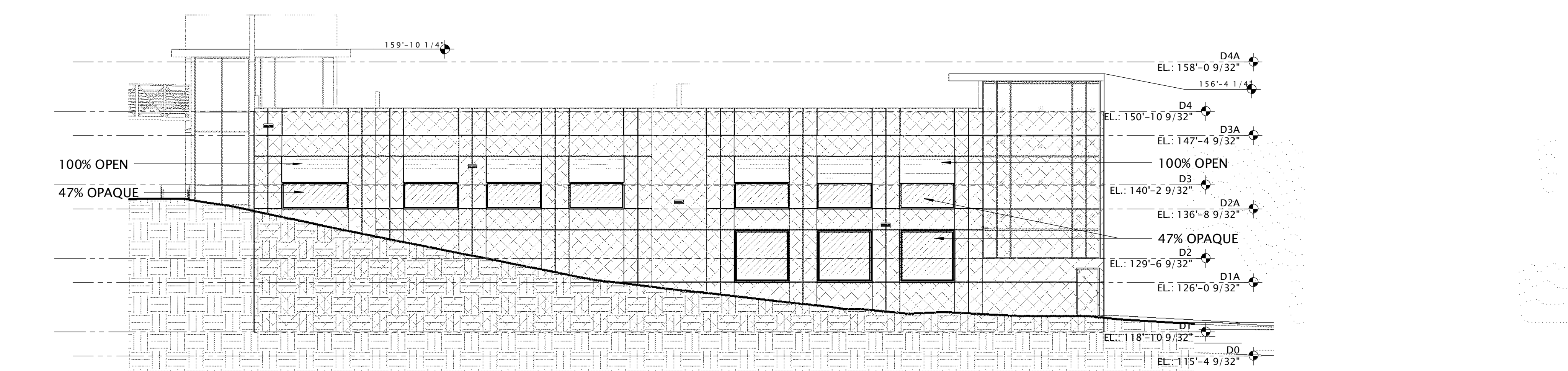
2 NORTH ELEVATION

SCALE: 3/32" = 1'-0"



3 WEST ELEVATION

SCALE: 3/32" = 1'-0"



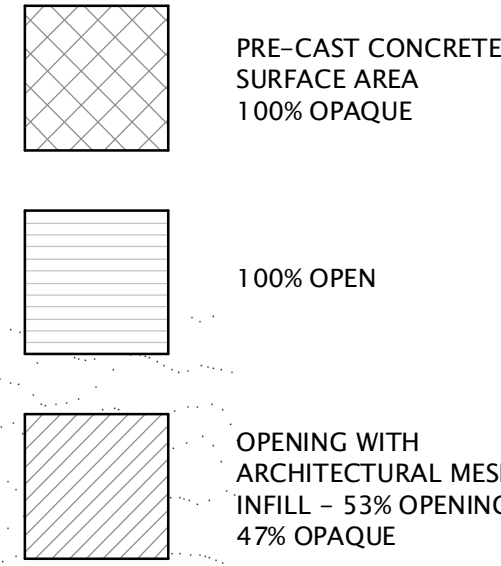
4 SOUTH ELEVATION

SCALE: 3/32" = 1'-0"



SCALE: 3/32" = 1'-0"

OPEN AREA LEGEND



TOTAL REQUIRED 20% OPENING AT PERIMETER PER SECTION 406.5

	NORTH	SOUTH	EAST	WEST	TOTAL SQ FT ALL ELEVATIONS	% TOTAL	TOTAL REQUIRED	TOTAL PROVIDED
<b>LEVEL D1</b>								
TOTAL	1316 SF	1316 SF	2229 SF	2229 SF	7090 SF			
100% OPEN	5 SF	7 SF	52 SF	0 SF	64 SF	64 SF (1%)		
53% OPEN	56 SF	70 SF	597 SF	0 SF	723 SF	383 SF (5.4%)		
65% OPEN	168 SF				168 SF	109 SF (1.5%)		
							1418 SF (20%)	556 SF (7.9%)
<b>LEVEL D2</b>								
TOTAL	1316 SF	1316 SF	2229 SF	2229 SF	7090 SF			
100% OPEN	290 SF	248 SF	275 SF	42 SF	855 SF	855 SF (12%)		
53% OPEN	226 SF	194 SF	539 SF	389 SF	1348 SF	714 SF (10%)		
							1418 SF (20%)	1569 SF (22%)
<b>LEVEL D3</b>								
TOTAL	1316 SF	1316 SF	2073 SF	2264 SF	6969 SF			
100% OPEN	290 SF	25 SF	382 SF	228 SF	925 SF	925 SF (13.2%)		
53% OPEN	226 SF	278 SF	428 SF	426 SF	1358 SF	720 SF (10.3%)		
							1394 SF (20%)	1645 SF (23.6%)
							4230 SF (20%)	3897 SF (18.4%)

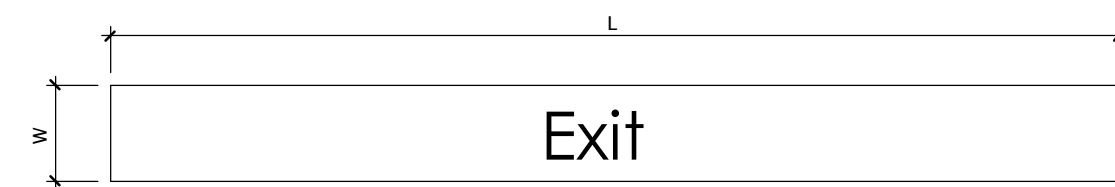
TOTAL REQUIRED 40% OPENING LENGTH AT PERIMETER PER SECTION 406.5

	PERIMETER	TOTAL REQUIRED	TOTAL PROVIDED
LEVEL D1	664.6'	265.8' (40%)	177.8' (26.7%)
LEVEL D2	664.6'	265.8' (40%)	343.8' (51.7%)
LEVEL D3	664.6'	265.8' (40%)	347.8' (52.3%)



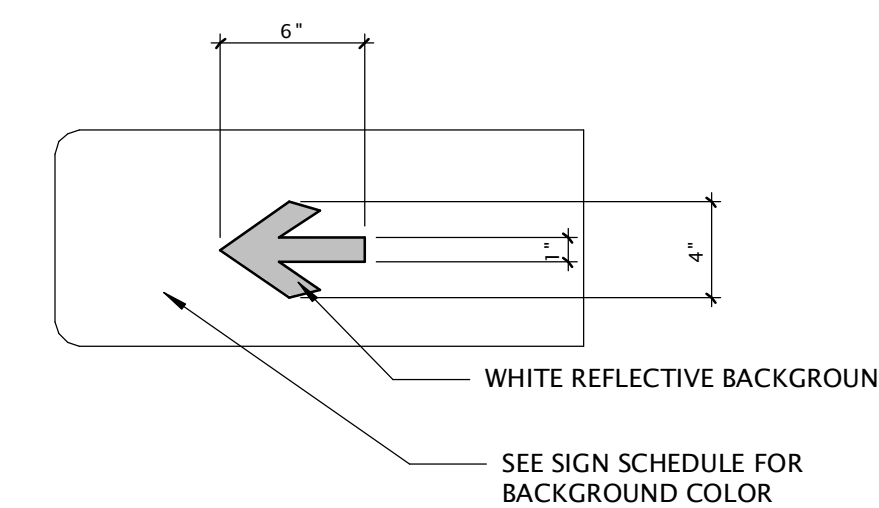
SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MESSAGE  
 - MATERIALS  
 - COLORS  
 - ETC.

TYP. CLEARANCE BAR SIGN FACE DETAIL

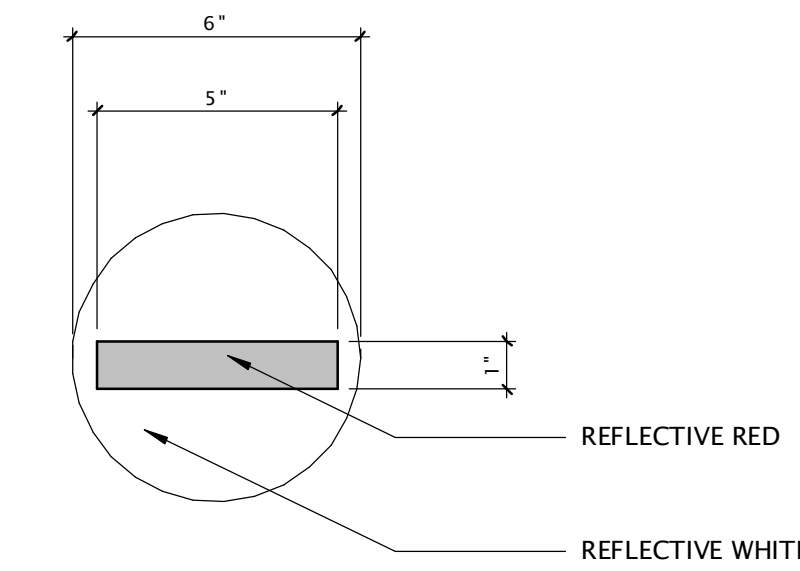


SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MESSAGE  
 - MATERIALS  
 - COLORS  
 - ETC.

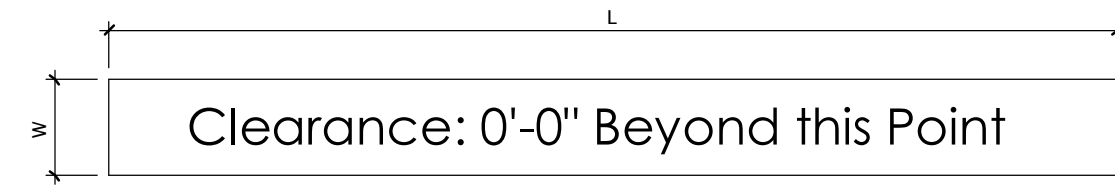
CLEARANCE BAR EXIT SIGN FACE DETAIL



ARROW SIGN FACE COMPONENT DETAIL



WRONG WAY SIGN FACE COMPONENT DETAIL



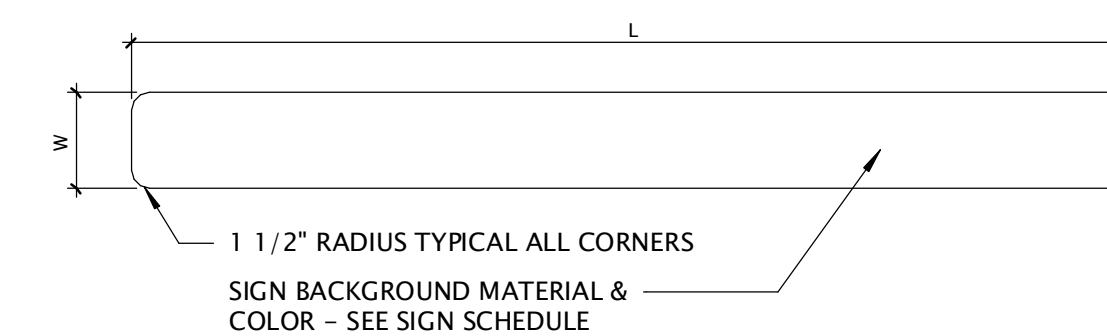
SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MESSAGE  
 - MATERIALS  
 - COLORS  
 - ETC.

TYP. CLEARANCE BAR SIGN FACE DETAIL 2

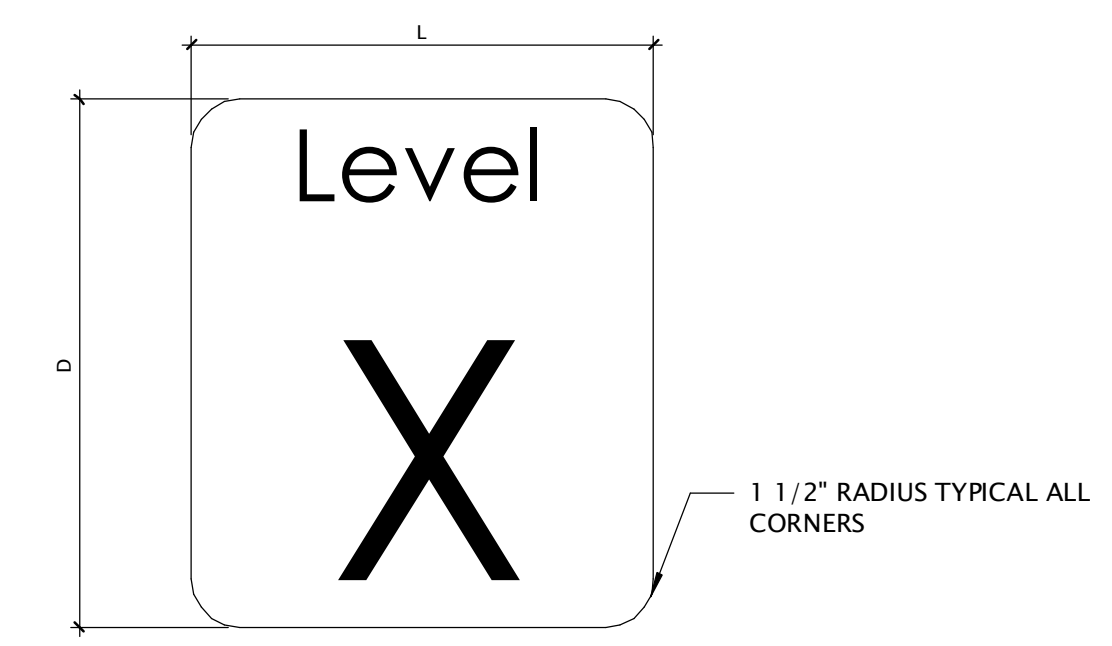


SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MESSAGE  
 - MATERIALS  
 - COLORS  
 - ETC.

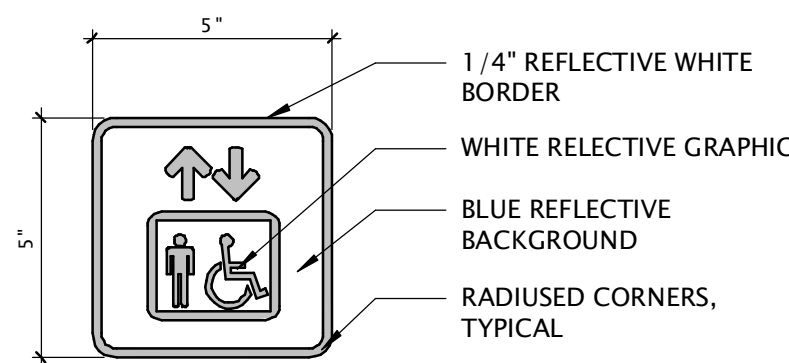
CLEARANCE BAR WRONG WAY DETAIL



TYPICAL SIGN FACE DETAIL



GARAGE LEVEL SIGN FACE DETAIL

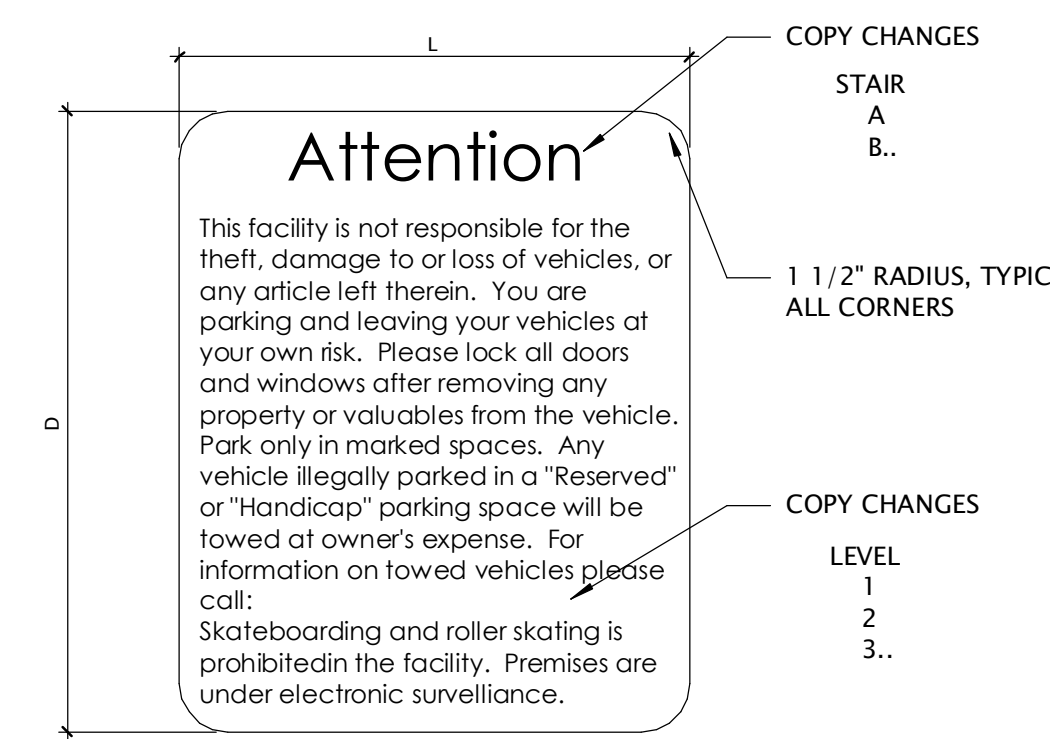


ELEVATOR SIGN FACE COMPONENT DETAIL

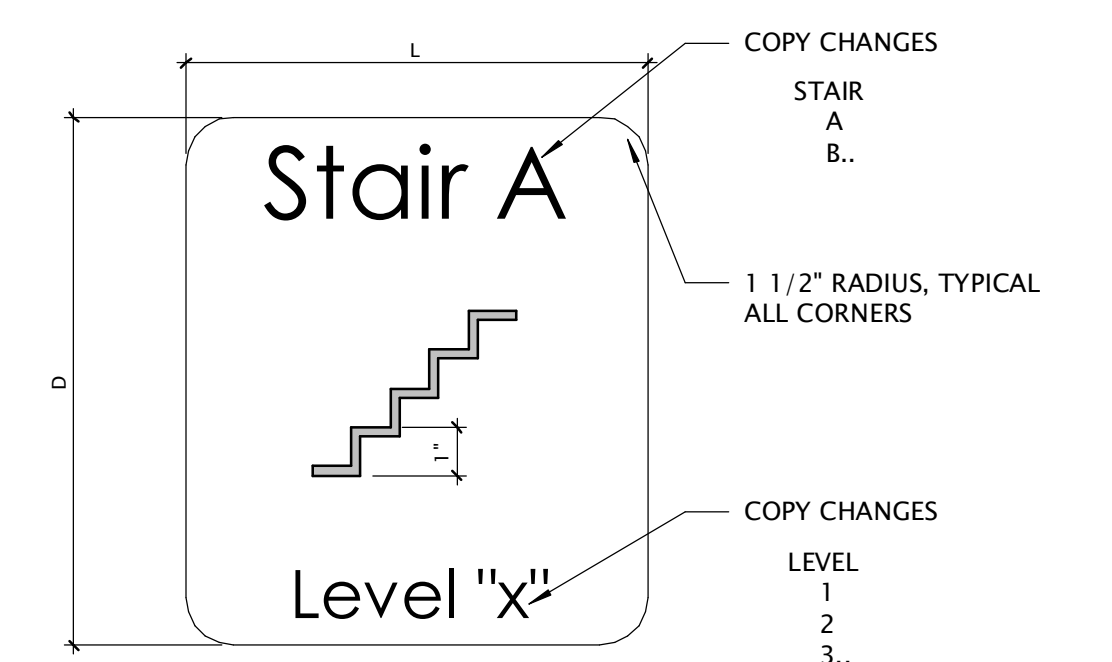


SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MESSAGE  
 - MATERIALS  
 - COLORS  
 - ETC.

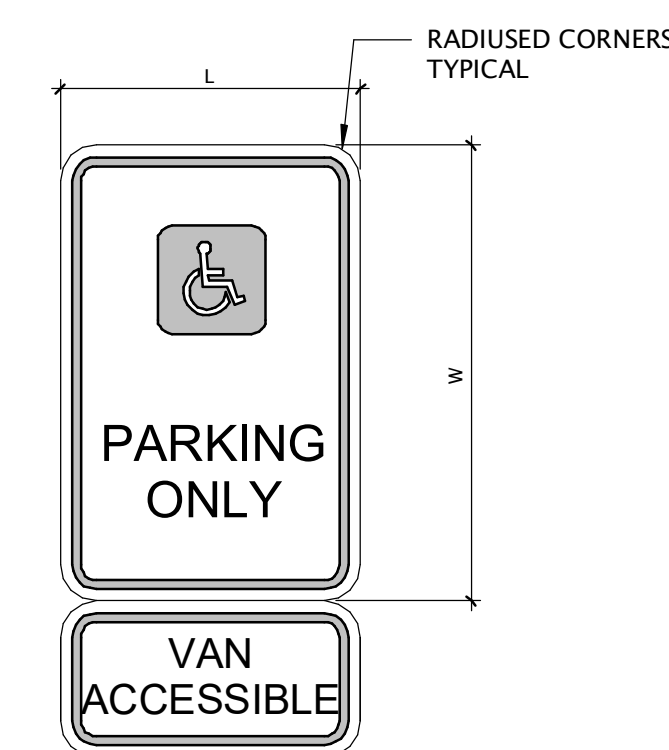
ELEVATOR SIGN FACE DETAIL



GARAGE REGULATORY SIGN FACE DETAIL

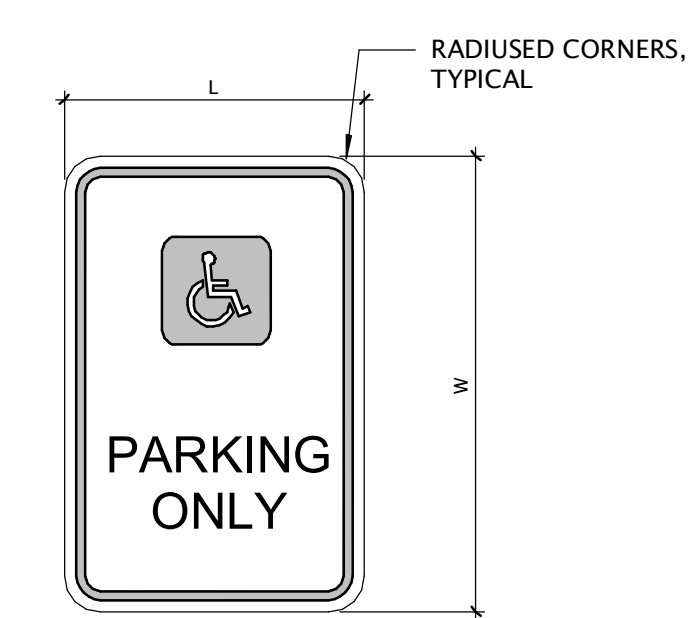


STAIR SIGN FACE DETAIL



SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MATERIALS  
 - COLORS  
 - ETC.

VAN ADA SIGN FACE DETAIL



SEE SIGN SCHEDULE FOR:  
 - DIMENSIONS  
 - MATERIALS  
 - COLORS  
 - ETC.

ADA SIGN FACE DETAIL



HEADQUARTERS EXPANSION  
AND NEW PARKING FACILITIES

RICHMOND, VIRGINIA 23220

ISSUE LOG

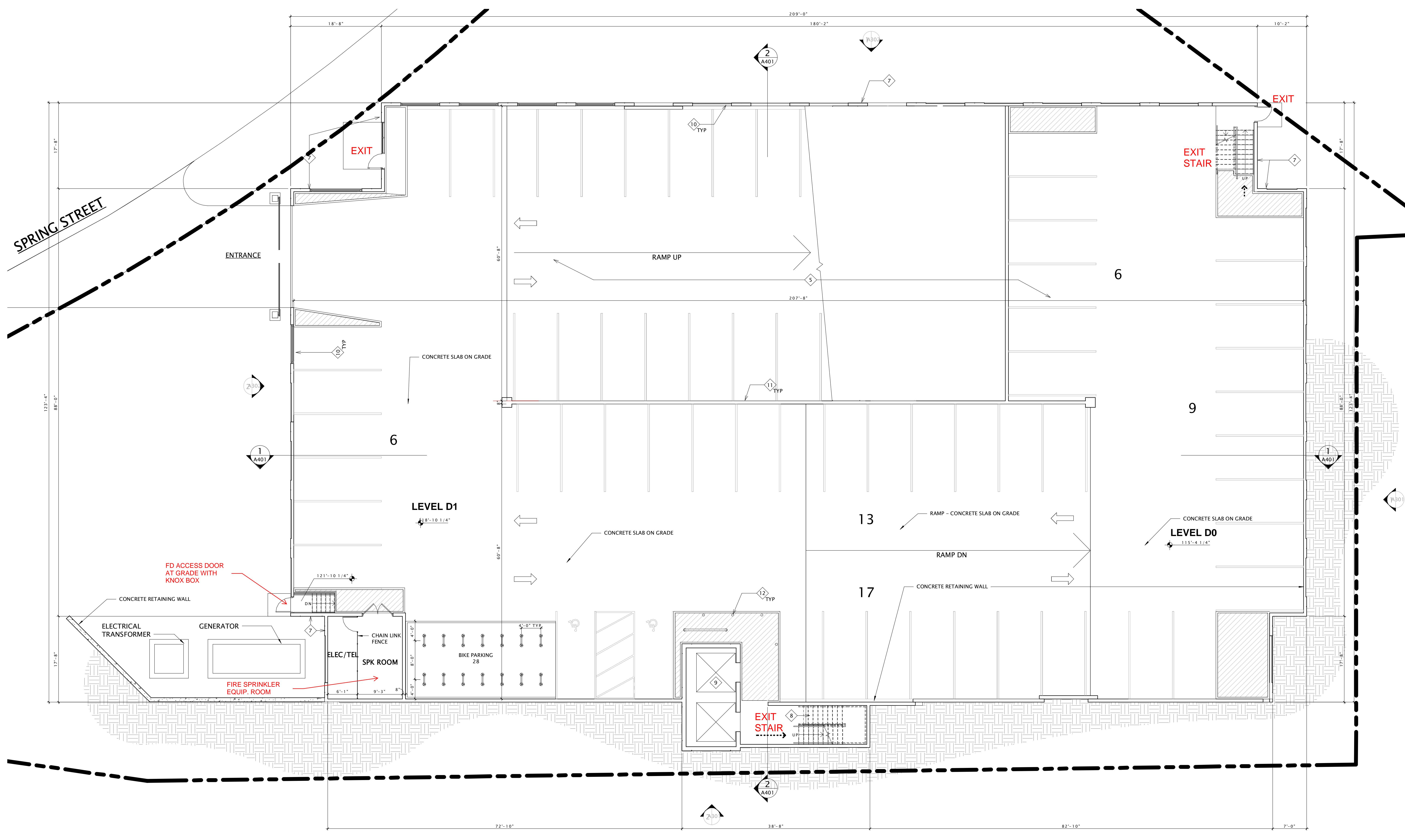
DESCRIPTION	DATE	NO.
50% SCHEMATIC PHASE	03/17/2020	
100% SCHEMATIC PHASE	04/10/2020	

NOT FOR  
CONSTRUCTION

Sheet Name:  
GARAGE SIGNAGE

Sheet Number:  
**A004**

Project Number: 2001.00



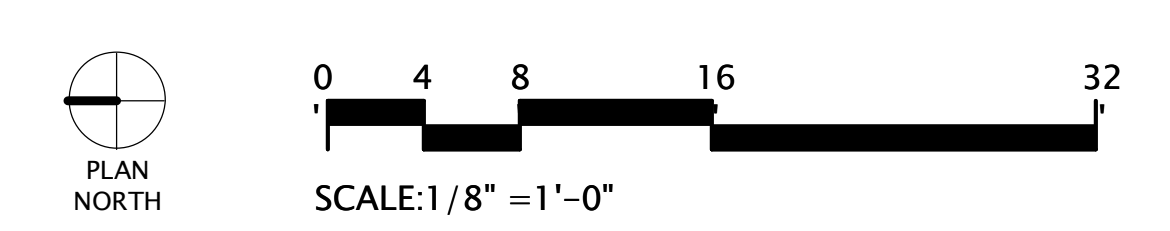
SPRING STREET

D1  
SCALE: 1/8" = 1'-0"

LEVEL	FULL SPACES	ACCESSIBLE SPACES	VAN SPACES	TOTAL SPACES
PARKING DECK - LEVEL D1	45		2	47
PARKING DECK - LEVEL D2	76	2		78
PARKING DECK - LEVEL D3	76	2		78
PARKING DECK - LEVEL D4	81	2		83
<b>TOTAL</b>	<b>278</b>	<b>6</b>	<b>2</b>	<b>286</b>

- CONSTRUCTION KEYNOTES - PLAN**
- INDICATED AS
- 5 PRE-CAST DOUBLE T DECK
  - 6 PRE-CAST DECK WITH 2" TOPPING SLAB
  - 7 PRE-CAST CONCRETE EXTERIOR PANELS
  - 8 PAINTED STEEL STAIRS/RAILS W/ CONCRETE PAN
  - 9 HYDRAULIC ELEVATORS
  - 10 STEEL CABLE BARRIERS
  - 11 GALVANIZED STEEL GUARDRAIL ON STEEL POSTS
  - 12 BOLLARD

	CONSTRUCTION KEYNOTES		CMU WALL
	WALL TYPE SYMBOL SEE SHEET A0.05		PRECAST CONCRETE WALL
	WINDOW TYPE SYMBOL SEE SHEET A6.02		PREFINISHED DECORATIVE STEEL FENCING
	1 HOUR FIRE RATED WALL		DOORS
	2 HOUR FIRE RATED WALL		ZONE OF ELASTOMERIC TRAFFIC COATING SYSTEM
	STORM DRAIN PIPE PROTECTION		BOLLARDS TYP. - SEE PARKING SHEETS FOR MORE INFORMATION
	ADA EGRESS PATH		



**HOURIGAN**

THINKING BEYOND THE CONCRETE.

411 E. FRANKLIN STREET, SUITE 400  
RICHMOND, VA 23219  
PHONE: 804.282.5300  
www.hourigan.group

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**HEADQUARTERS EXPANSION AND NEW PARKING FACILITIES**

RICHMOND, VIRGINIA 23220

**ISSUE LOG**

DESCRIPTION	DATE	NO.
50% SCHEMATIC PHASE	03/17/2020	
100% SCHEMATIC PHASE	04/10/2020	
REV-1 - SUP RE-SUBMITTAL	07/31/2020	
SUP COMMENT REVISIONS	10/13/2020	

DESCRIPTION	DATE	NO.

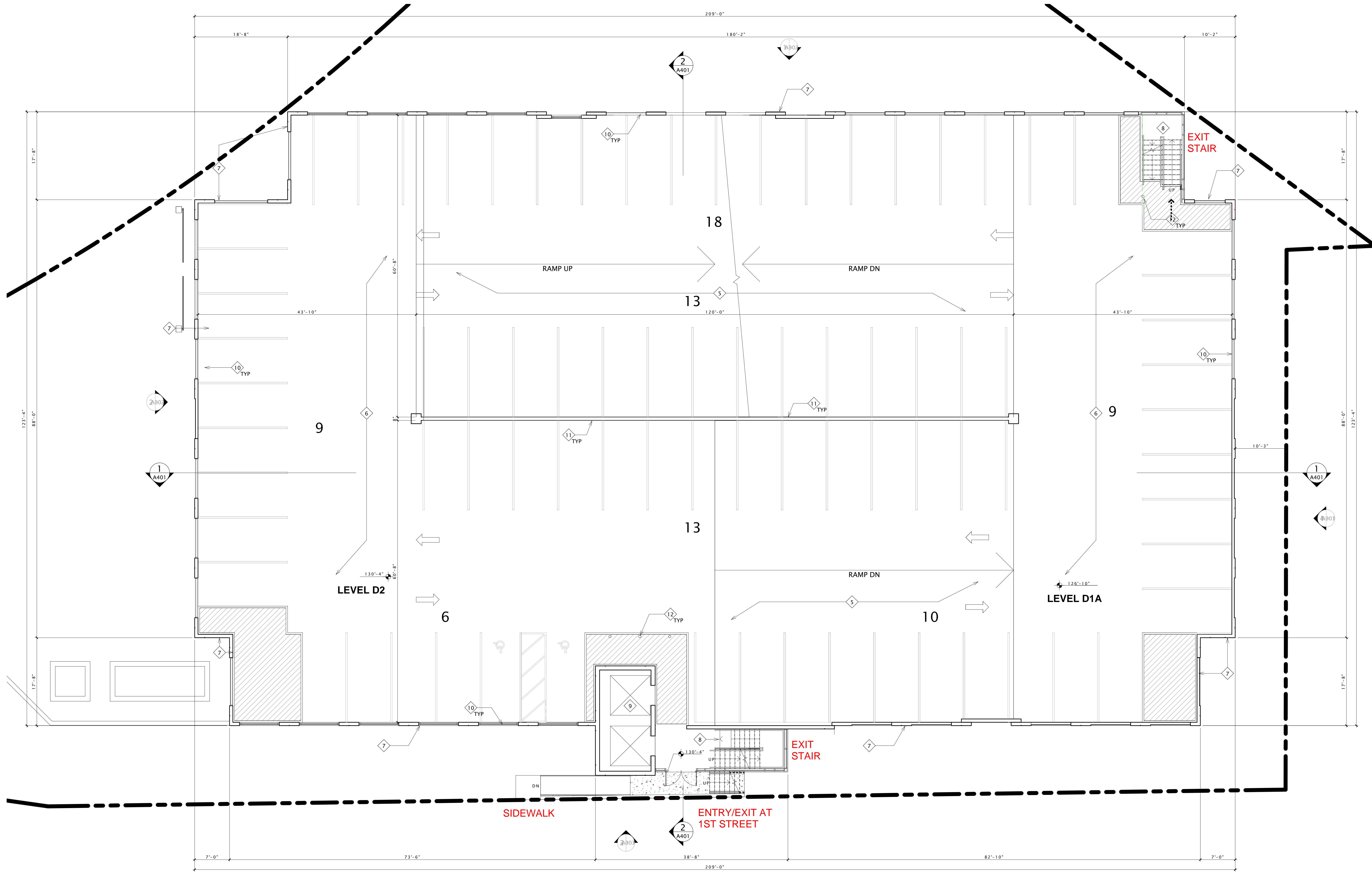
NOT FOR CONSTRUCTION

Sheet Name:  
LEVEL D1

Sheet Number:  
**A201**

Project Number:  
2001.00



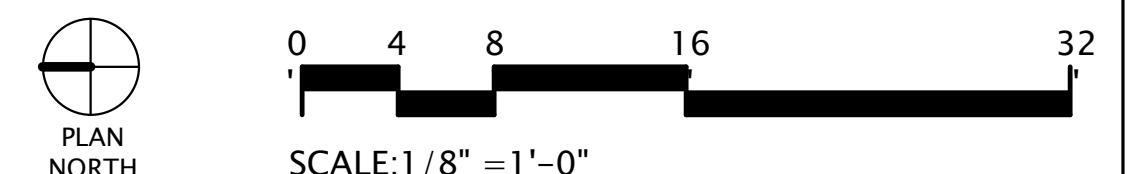


**CONSTRUCTION KEYNOTES - PLAN**

- INDICATED AS
- 5 PRE-CAST DOUBLE T DECK
  - 6 PRE-CAST DECK WITH 2" TOPPING SLAB
  - 7 PRE-CAST CONCRETE EXTERIOR PANELS
  - 8 PAINTED STEEL STAIRS/RAILS W/CONCRETE PAN
  - 9 HYDRAULIC ELEVATORS
  - 10 STEEL CABLE BARRIERS
  - 11 GALVANIZED STEEL GUARDRAIL ON STEEL POSTS
  - 12 BOLLARD

**CONSTRUCTION LEGEND**

- Construction Keynotes (diamond with number)
- Wall Type Symbol (XX)
- Window Type Symbol (XX)
- 1 Hour Fire Rated Wall (dashed line)
- 2 Hour Fire Rated Wall (dash-dot line)
- Storm Drain Pipe Protection (circle with cross)
- ADA Egress Path (cross-hatched area)
- CMU Wall (cross-hatched area)
- Precast Concrete Wall (dotted area)
- Prefinished Decorative Steel Fencing (X-X-X-X)
- Doors (arch shape)
- Zone of Elastomeric Traffic Coating System (hatched area)
- Bollards TYP. - See Parking Sheets for More Information (square with circle)



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 RICHMOND, VA 23219  
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 HEADQUARTERS EXPANSION  
 AND NEW PARKING FACILITIES

RICHMOND, VIRGINIA 23220

ISSUE LOG

DESCRIPTION	DATE	NO.
50% SCHEMATIC PHASE	03/17/2020	
100% SCHEMATIC PHASE	04/10/2020	
SUP COMMENT REVISIONS	10/13/2020	

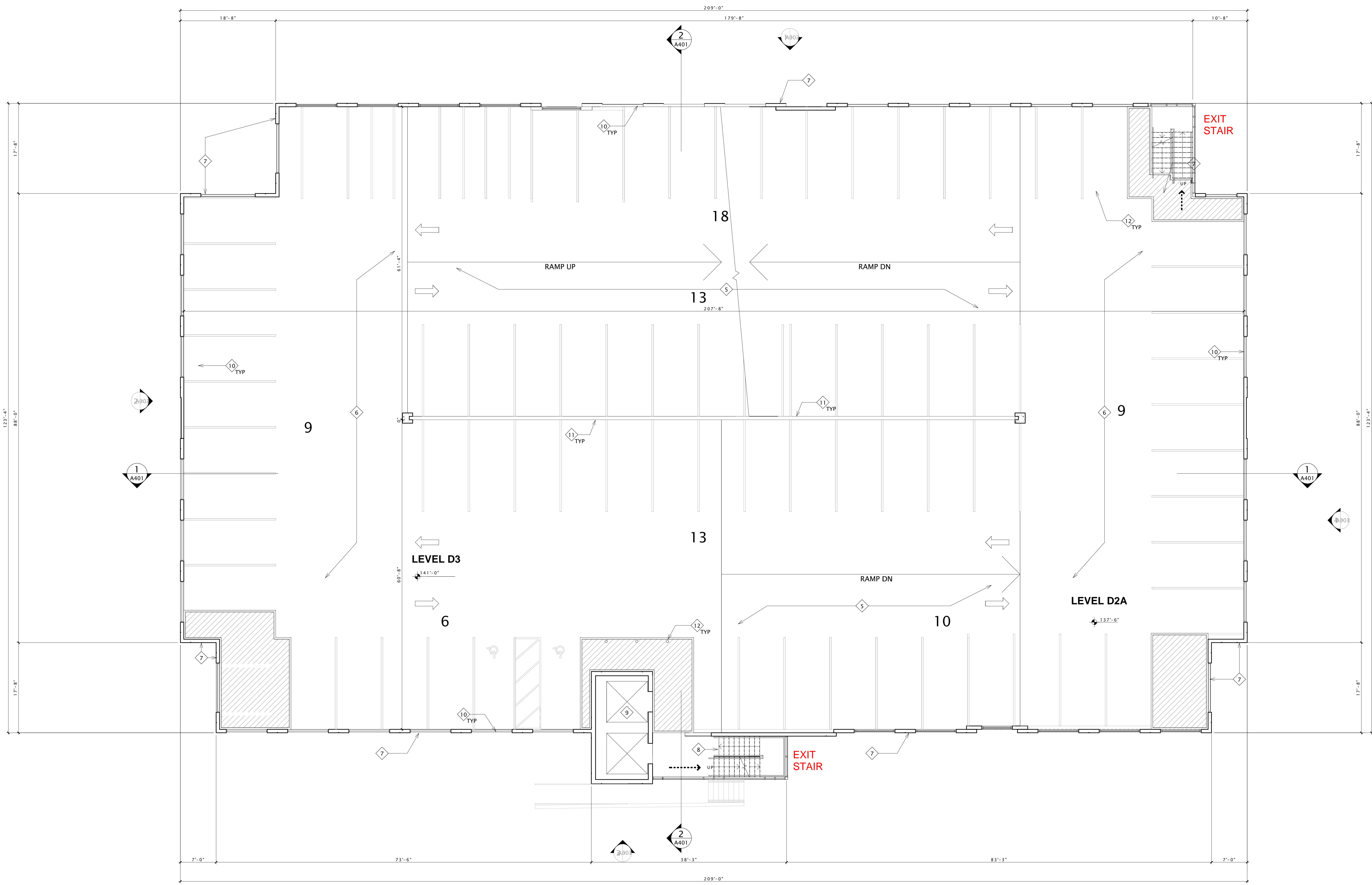
DESCRIPTION	DATE	NO.

**NOT FOR CONSTRUCTION**

Sheet Name:  
**LEVEL D2**

Sheet Number:  
**A202**

Project Number: 2001.00



**VHDA**  
HEADQUARTERS EXPANSION  
AND NEW PARKING FACILITIES  
RICHMOND, VIRGINIA 23220

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
SUP COMMENT REVISIONS	10/13/2020

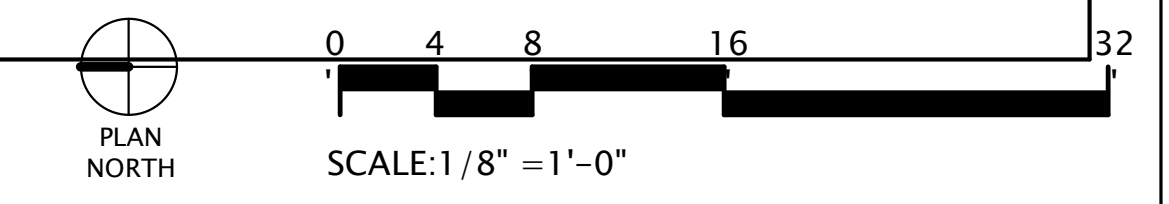
DESCRIPTION	DATE	NO.

CONSTRUCTION KEYNOTES - PLAN

- INDICATED AS
- 5 PRE-CAST DOUBLE T DECK
  - 6 PRE-CAST DECK WITH 2" TOPPING SLAB
  - 7 PRE-CAST CONCRETE EXTERIOR PANELS
  - 8 PAINTED STEEL STAIRS/RAILS W/CONCRETE PAN
  - 9 HYDRAULIC ELEVATORS
  - 10 STEEL CABLE BARRIERS
  - 11 GALVANIZED STEEL GUARDRAIL ON STEEL POSTS
  - 12 BOLLARD

CONSTRUCTION LEGEND

	CONSTRUCTION KEYNOTES		CMU WALL
	WALL TYPE SYMBOL SEE SHEET A0.05		PRECAST CONCRETE WALL
	WINDOW TYPE SYMBOL SEE SHEET A6.02		PREFINISHED DECORATIVE STEEL FENCING
	1 HOUR FIRE RATED WALL		DOORS
	2 HOUR FIRE RATED WALL		ZONE OF ELASTOMERIC TRAFFIC COATING SYSTEM
	STORM DRAIN PIPE PROTECTION		BOLLARDS TYP. - SEE PARKING SHEETS FOR MORE INFORMATION
	ADA EGRESS PATH		



**NOT FOR CONSTRUCTION**

Sheet Name:  
**LEVEL D3**

Sheet Number:  
**A203**

Project Number: 2001.00



**VHDA**  
 HEADQUARTERS EXPANSION  
 AND NEW PARKING FACILITIES  
 RICHMOND, VIRGINIA 23220

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
SUP COMMENT REVISIONS	10/13/2020

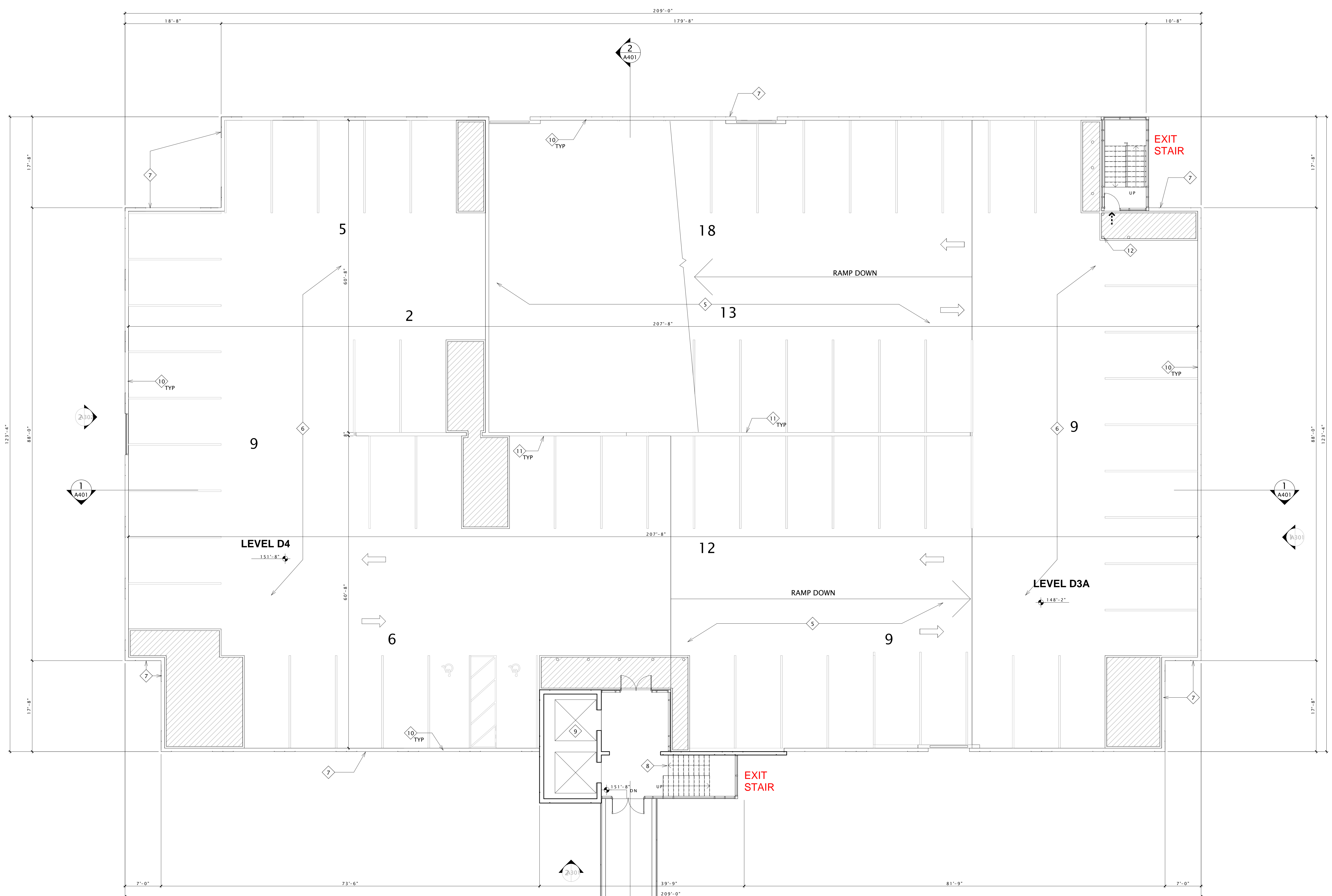
DESCRIPTION	DATE	NO.

DESCRIPTION	DATE	NO.

**NOT FOR CONSTRUCTION**

Sheet Name:  
**LEVEL D4**

Sheet Number:  
**A204**  
 Project Number: 2001.00



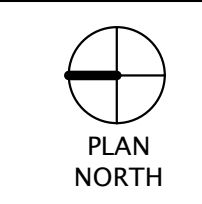
**PED BRIDGE  
 ACROSS  
 1ST ST. TO  
 HQ-2**

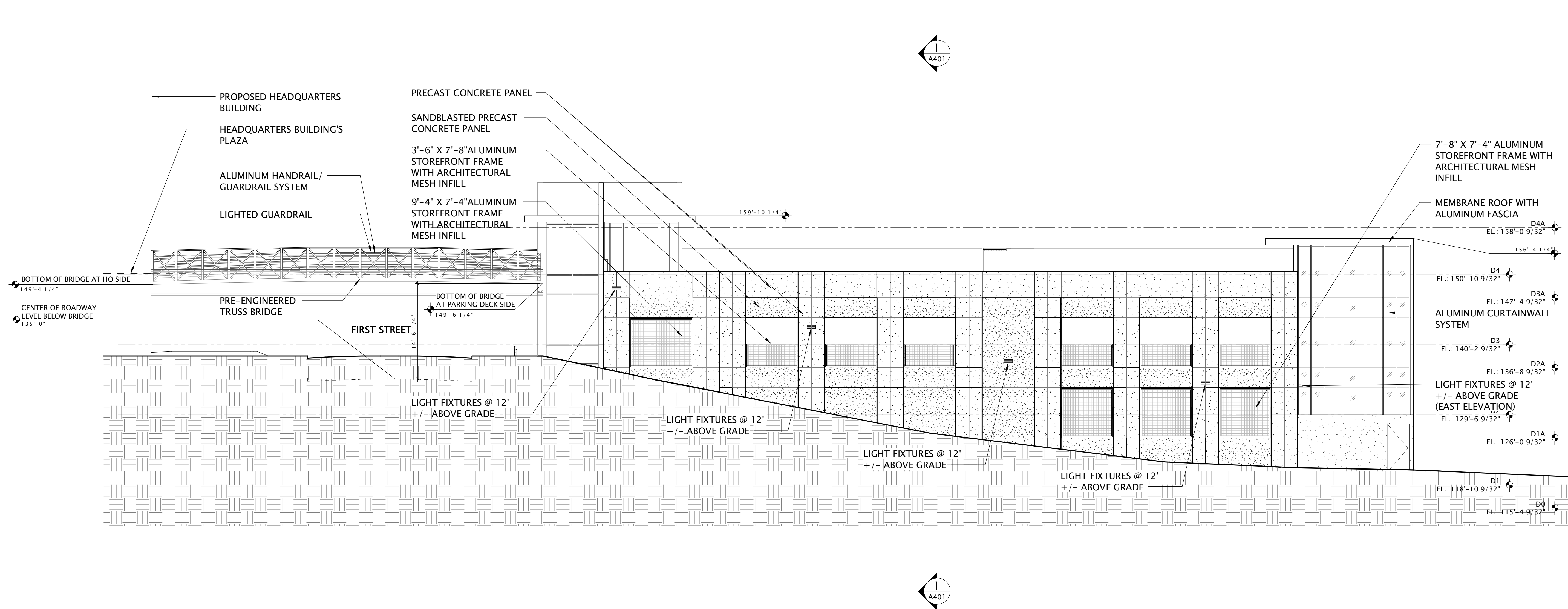
**CONSTRUCTION KEYNOTES - PLAN**

- INDICATED AS
- 5 PRE-CAST DOUBLE T DECK
  - 6 PRE-CAST DECK WITH 2" TOPPING SLAB
  - 7 PRE-CAST CONCRETE EXTERIOR PANELS
  - 8 PAINTED STEEL STAIRS/RAILS W/ CONCRETE PAN
  - 9 HYDRAULIC ELEVATORS
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  - 11 GALVANIZED STEEL GUARDRAIL ON STEEL POSTS
  - 12 BOLLARD

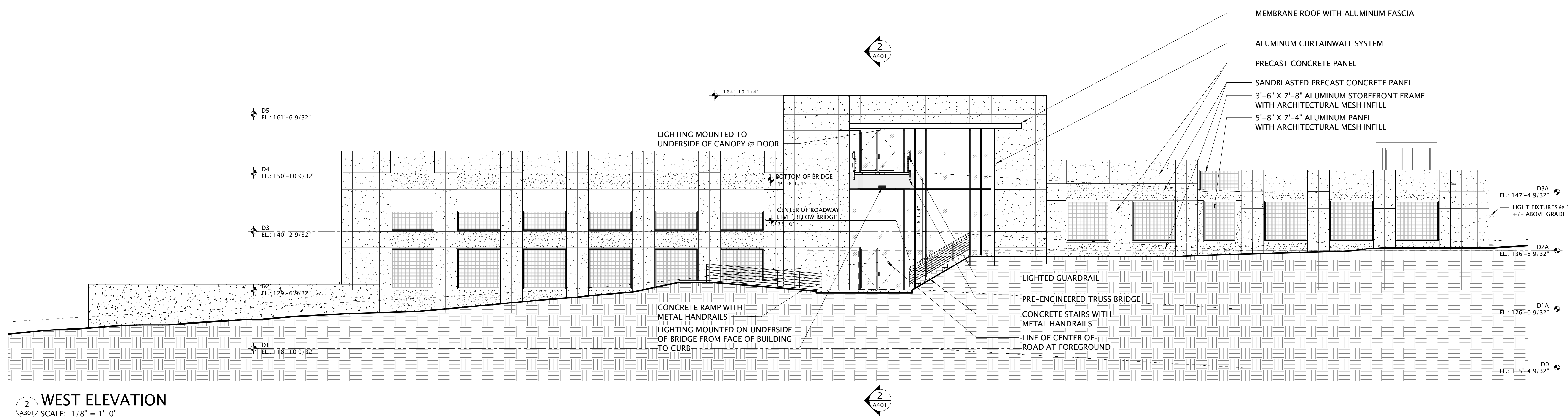
**CONSTRUCTION LEGEND**

- |  |                                       |  |  |
|--|---------------------------------------|--|--|
|  | CONSTRUCTION KEYNOTES                 |  | CMU WALL   |
|  | WALL TYPE SYMBOL<br>SEE SHEET A0.05   |  | PRECAST CONCRETE WALL                                      |
|  | WINDOW TYPE SYMBOL<br>SEE SHEET A6.02 |  | PREFINISHED DECORATIVE<br>STEEL FENCING                    |
|  | 1 HOUR FIRE RATED WALL                |  | DOORS  |
|  | 2 HOUR FIRE RATED WALL                |  | ZONE OF ELASTOMERIC<br>TRAFFIC COATING SYSTEM              |
|  | STORM DRAIN PIPE<br>PROTECTION        |  | BOLLARDS TYP. - SEE PARKING<br>SHEETS FOR MORE INFORMATION |
|  | ADA EGRESS PATH                       |  |  |

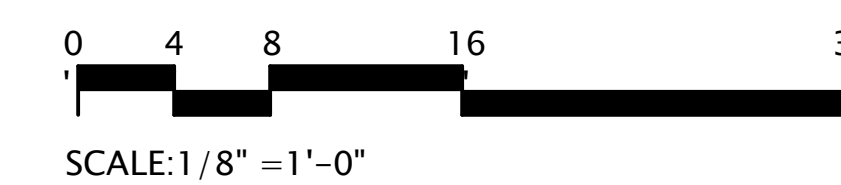




**1 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



**2 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"




**HEADQUARTERS EXPANSION AND NEW PARKING FACILITIES**

RICHMOND, VIRGINIA 23220

**ISSUE LOG**

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
REV-1 - SUP RE-SUBMITTAL	07/31/2020

DESCRIPTION	DATE	NO.

NOT FOR CONSTRUCTION

Sheet Name:  
**ELEVATIONS**



**VHDA**  
**HEADQUARTERS EXPANSION AND NEW PARKING FACILITIES**

RICHMOND, VIRGINIA 23220

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
REV-1 - SUP RE-SUBMITTAL	07/31/2020

DESCRIPTION	DATE	NO.

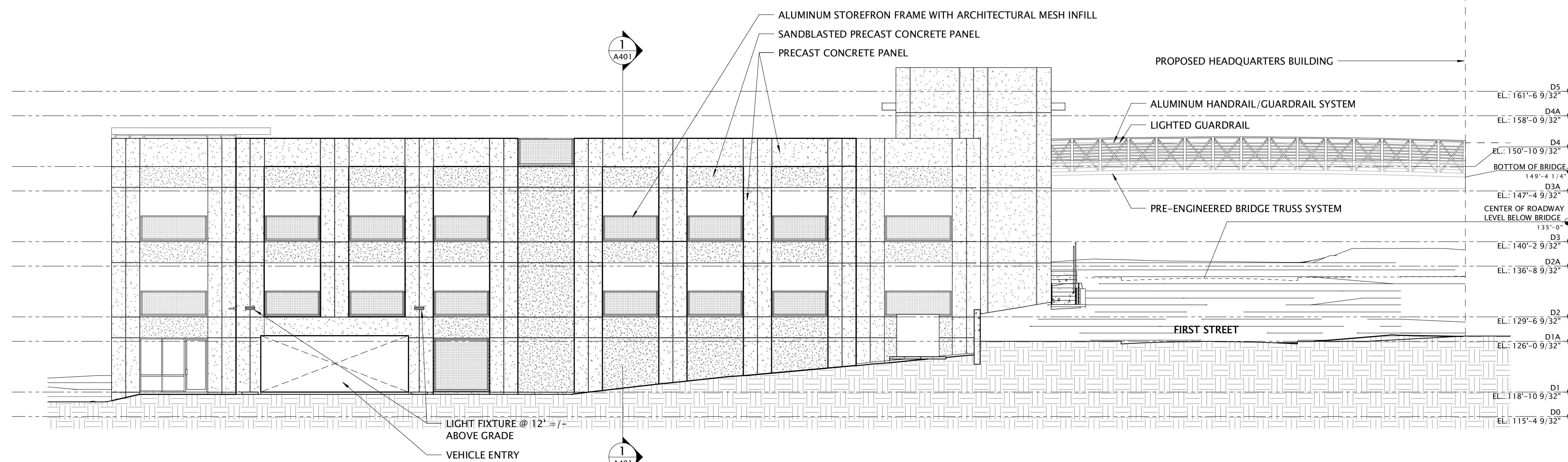
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Sheet Name:  
ELEVATIONS

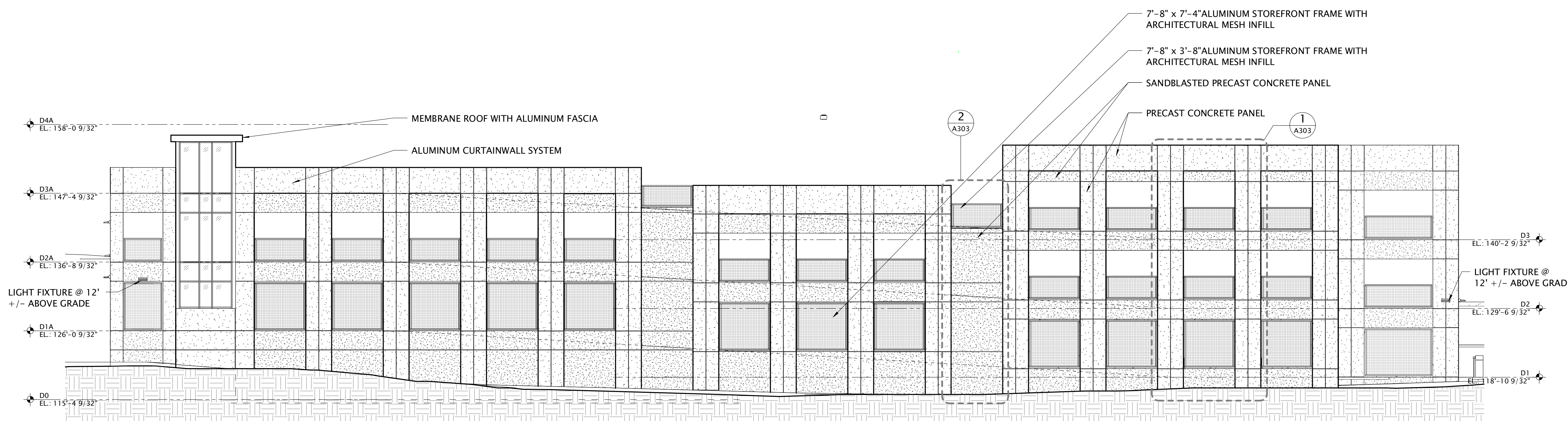
Sheet Number:

**A302**

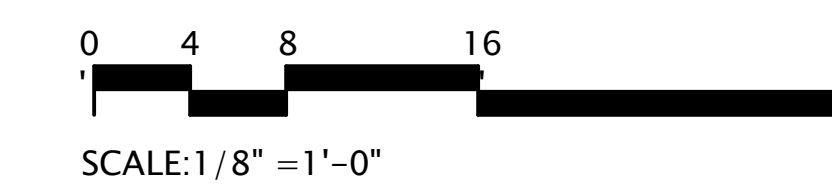
Project Number: 2001.00

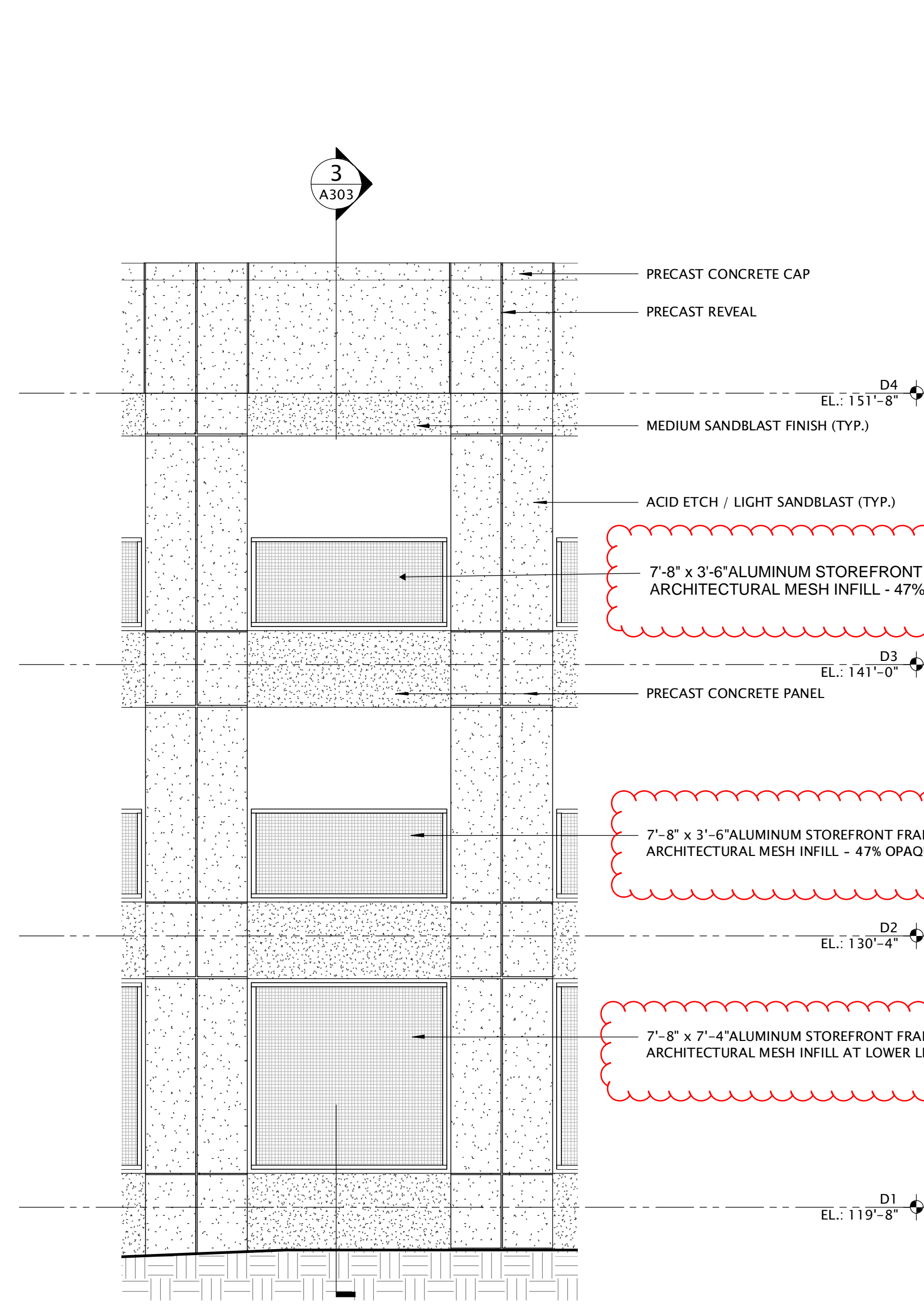


**2 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"



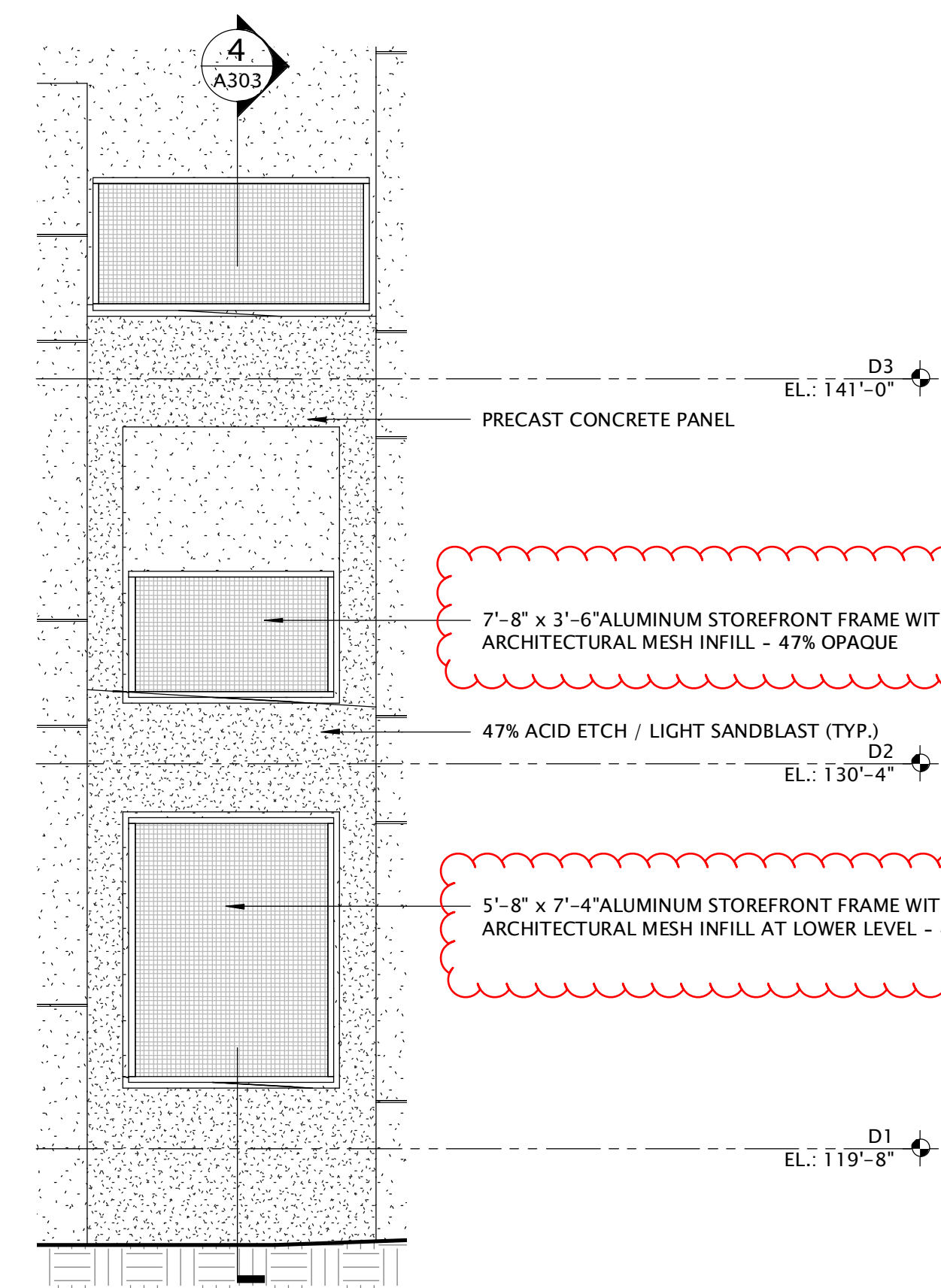
**1 EAST ELEVATION**  
SCALE: 1/8" = 1'-0"





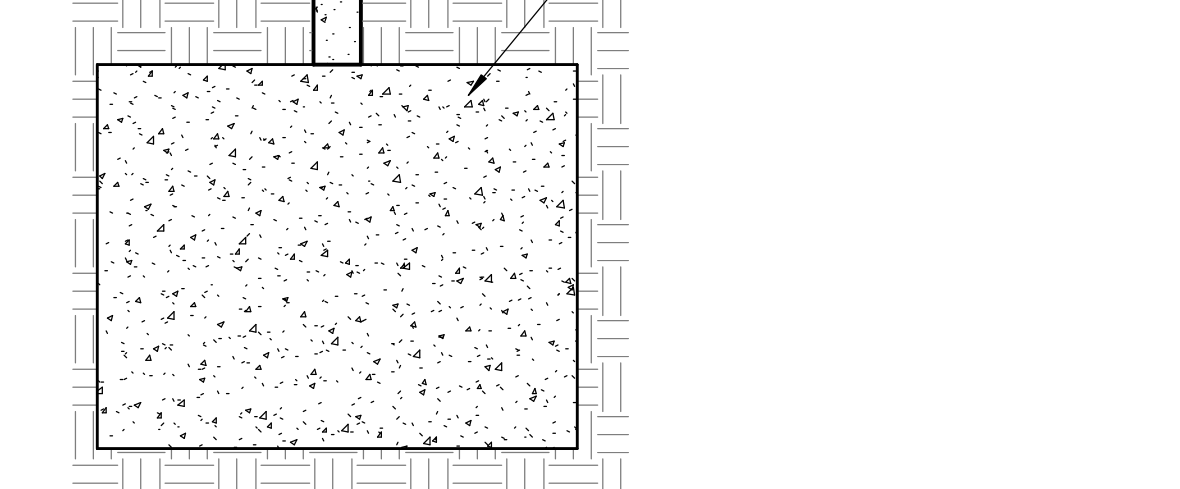
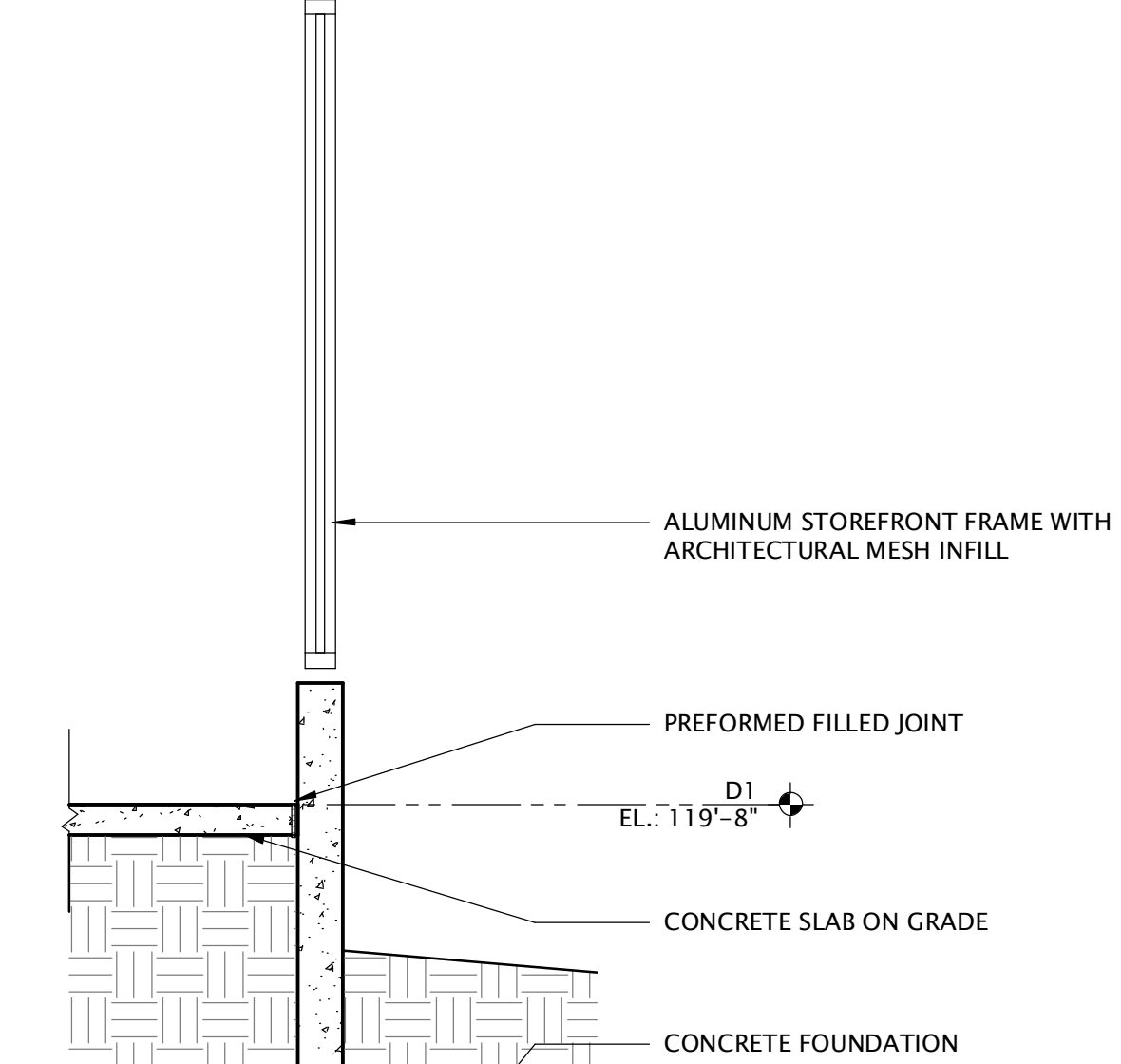
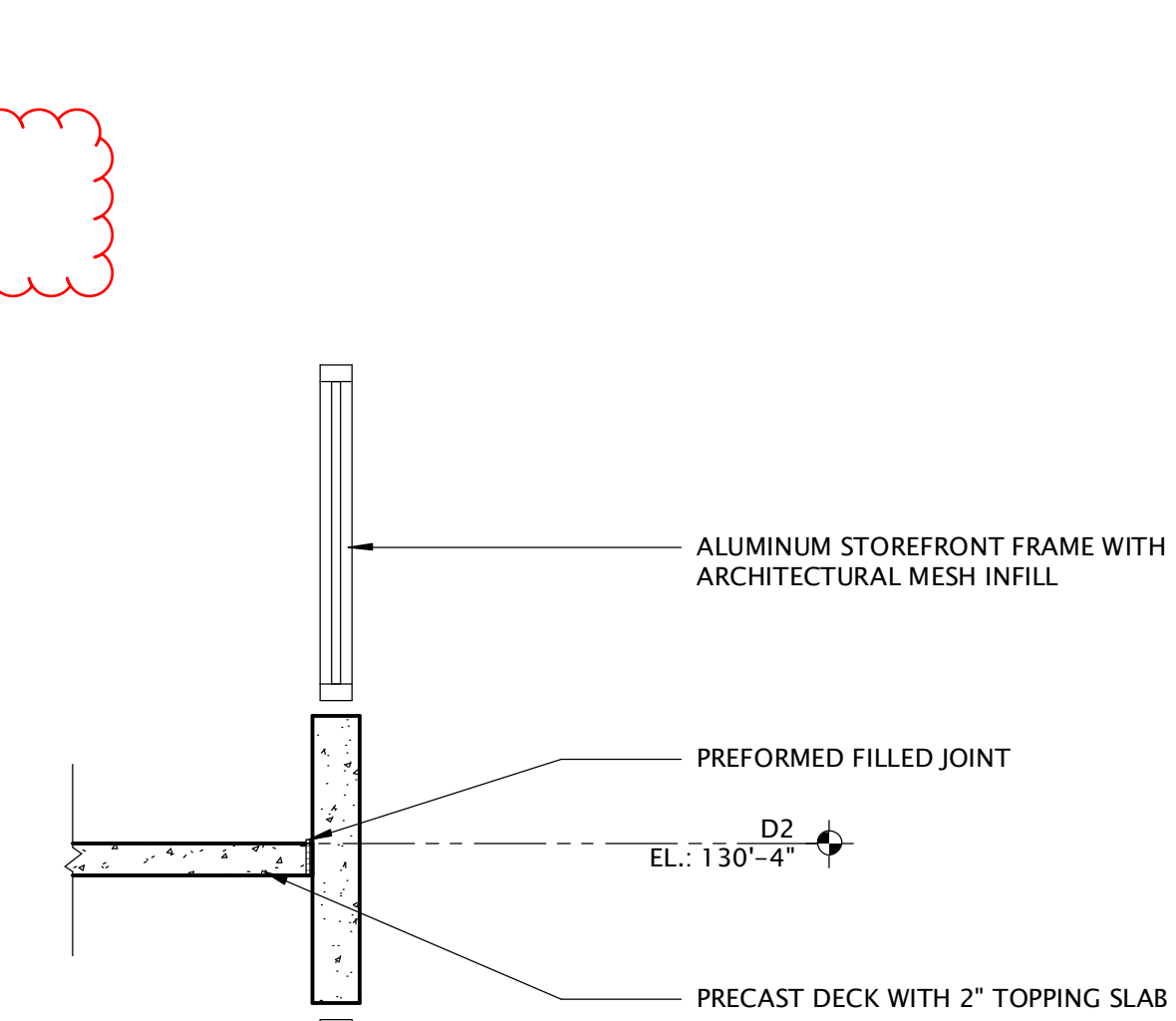
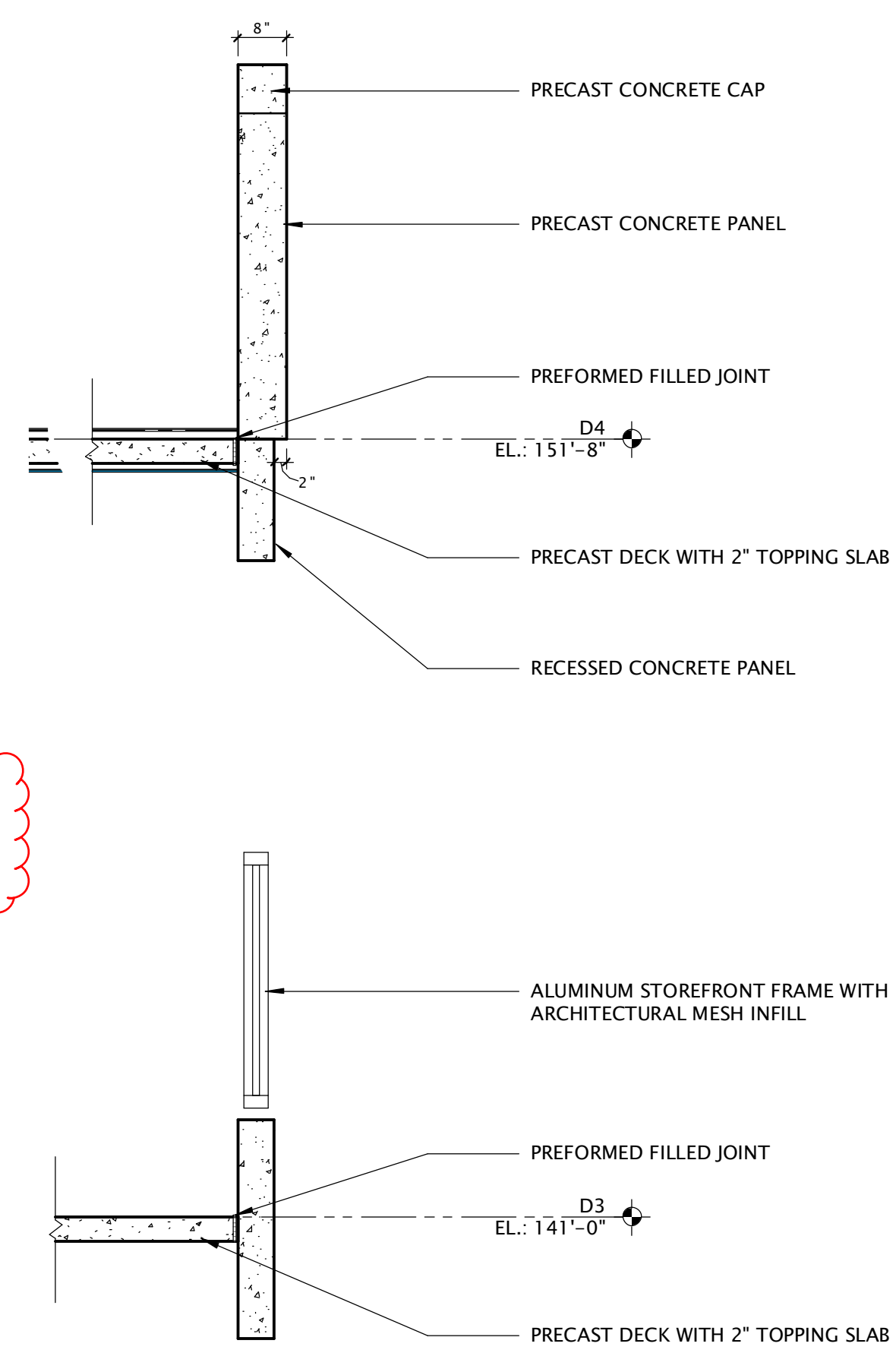
1 TYPICAL PANEL ELEVATION 1

A303 / SCALE: 1/4" = 1'-0"



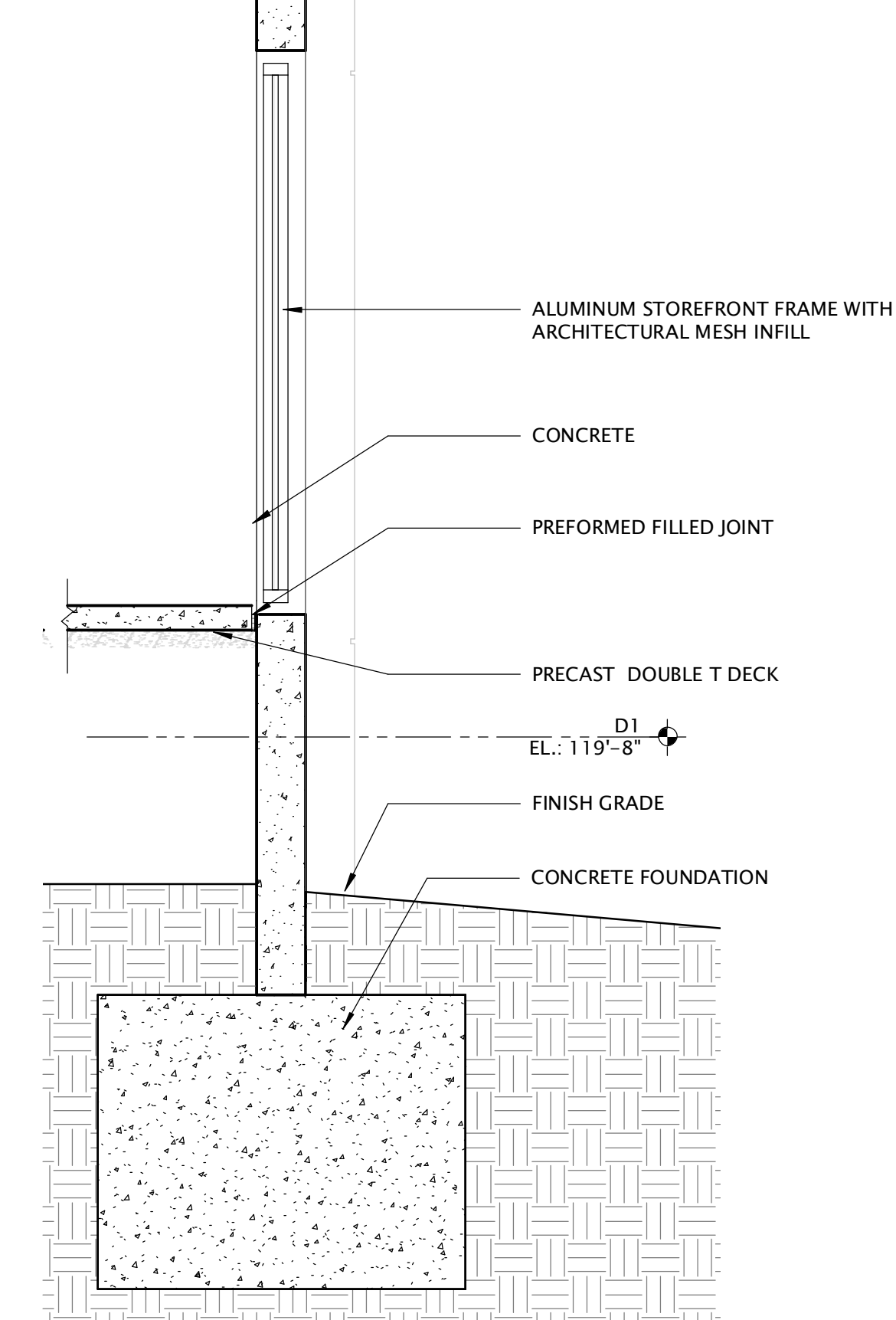
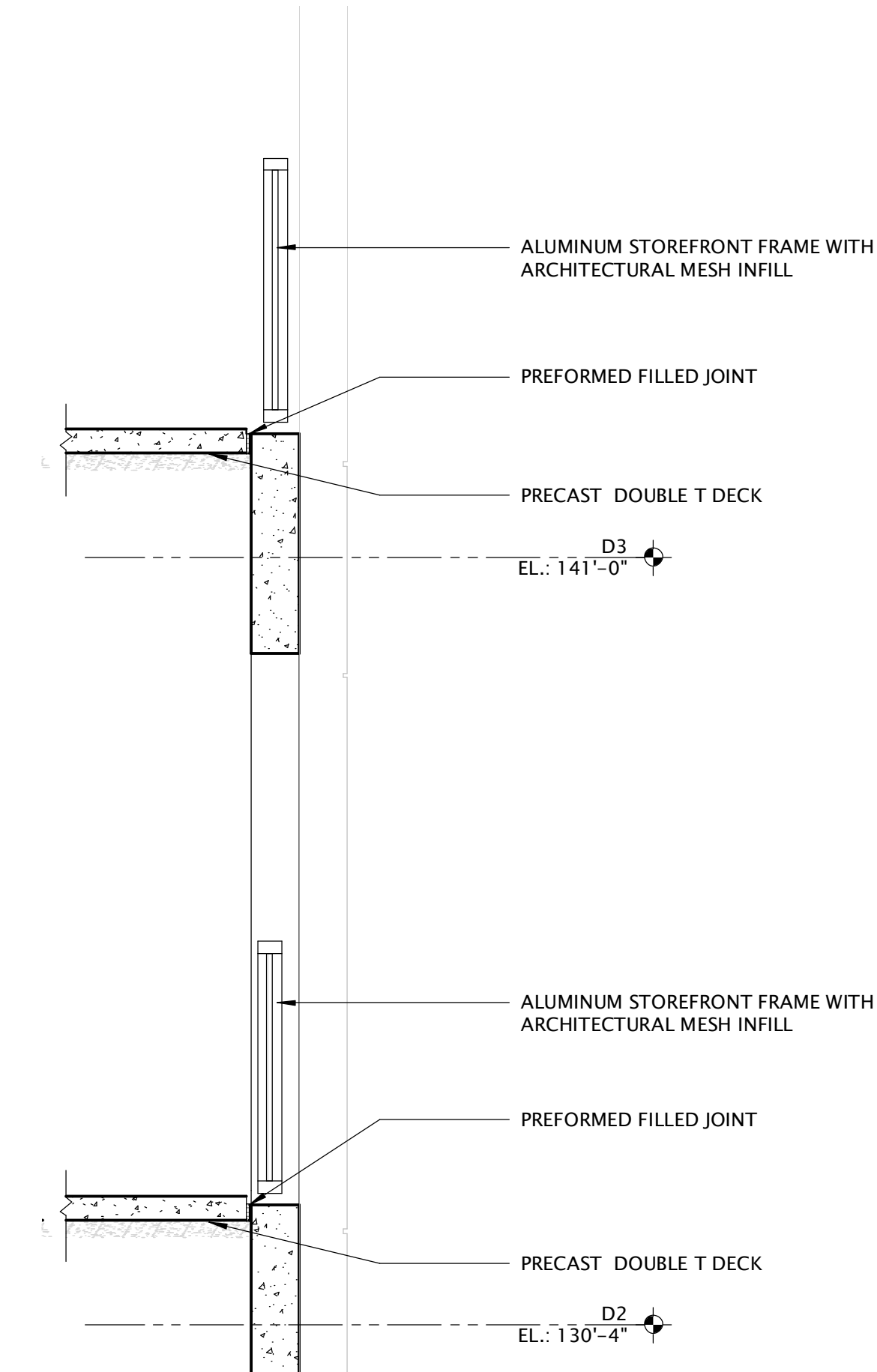
2 TYPICAL PANEL ELEVATION 2

A303 / SCALE: 1/4" = 1'-0"



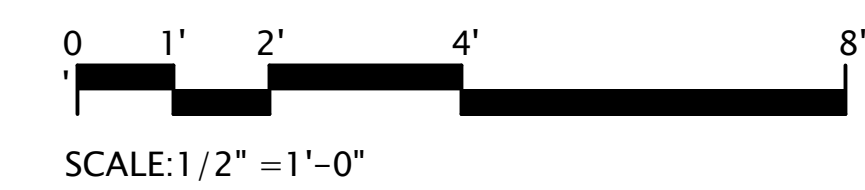
3 TYPICAL WALL SECTION 1

A303 / SCALE: 1/2" = 1'-0"



4 TYPICAL WALL SECTION 2

A303 / SCALE: 1/2" = 1'-0"



**VHDA**  
 HEADQUARTERS EXPANSION  
 AND NEW PARKING FACILITIES  
 RICHMOND, VIRGINIA 23220

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
SUP REVIEW COMMENTS	10/13/2020

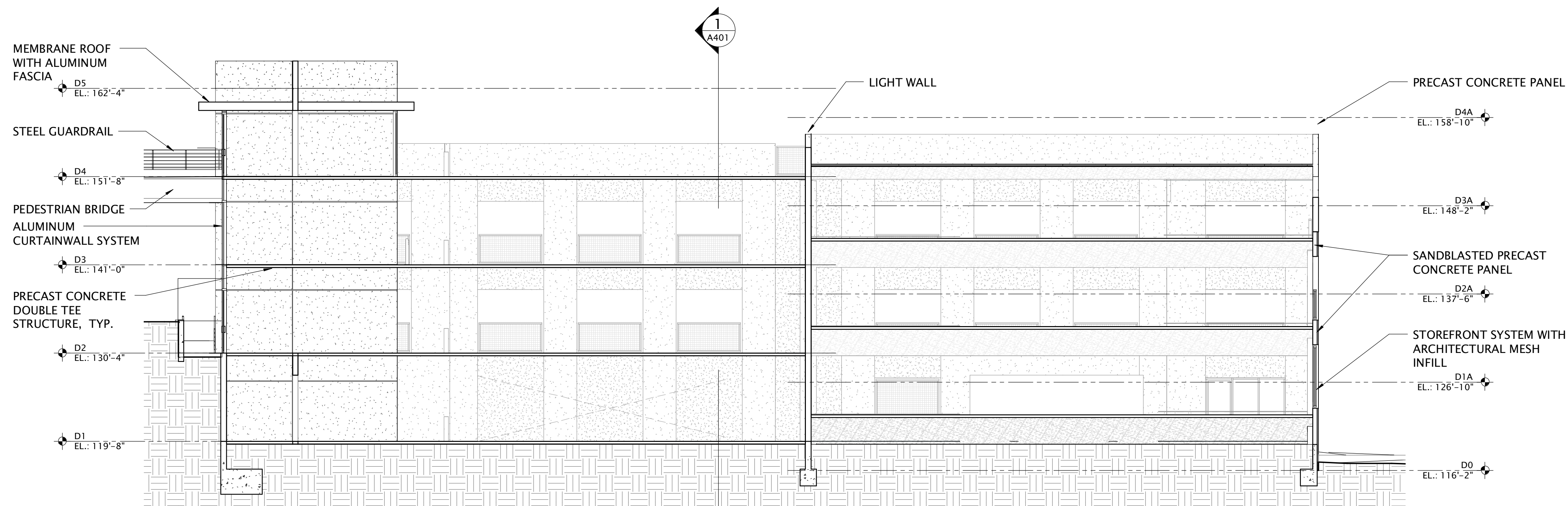
DESCRIPTION	DATE	NO.

NOT FOR  
 CONSTRUCTION

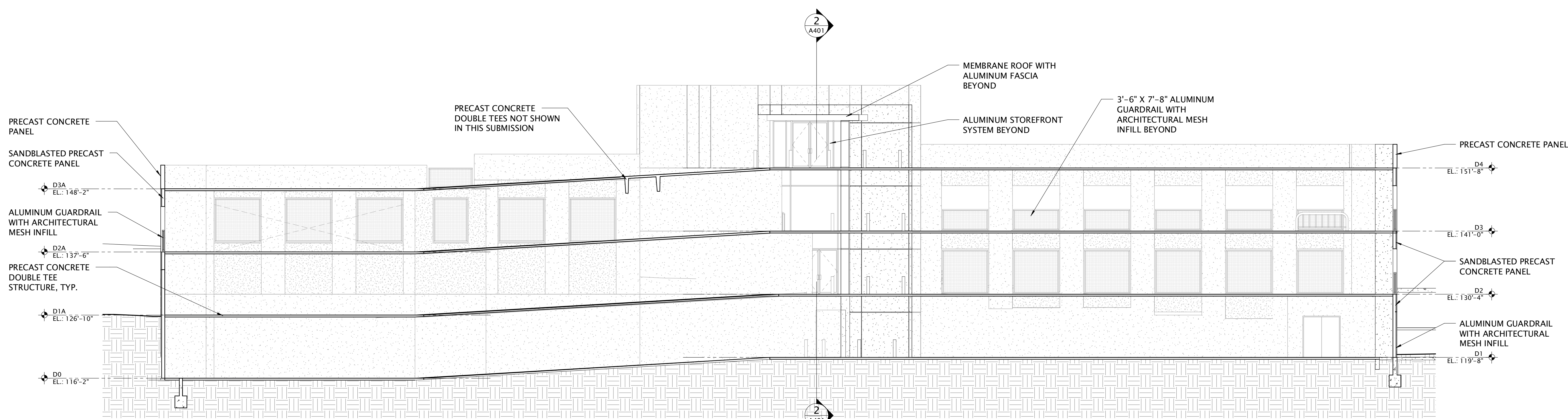
Sheet Name:  
 PANEL DETAILS

Sheet Number:  
**A303**

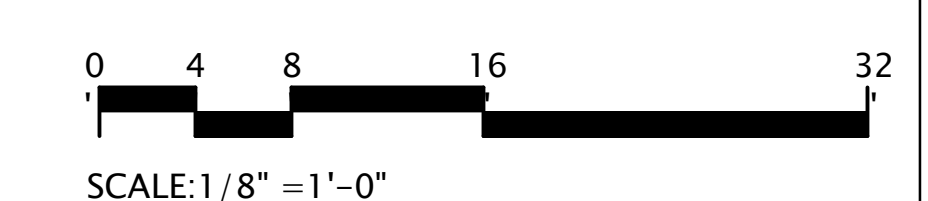
Project Number: 2001.00



**2 CROSS SECTION**  
 SCALE: 1/8" = 1'-0"



**1 LONGITUDINAL SECTION**  
 SCALE: 1/8" = 1'-0"



**VHDA**  
 HEADQUARTERS EXPANSION  
 AND NEW PARKING FACILITIES  
 RICHMOND, VIRGINIA 23220

ISSUE LOG

50% SCHEMATIC PHASE	03/17/2020
100% SCHEMATIC PHASE	04/10/2020
SUP COMMENT REVISIONS	10/13/2020

DESCRIPTION DATE NO.

**NOT FOR CONSTRUCTION**

Sheet Name:  
**SECTIONS**

Sheet Number:  
**A401**  
 Project Number: 2001.00

HEADQUARTERS EXPANSION AND NEW PARKING FACILITIES 601 SOUTH BELVEDERE STREET

ISSUE LOG

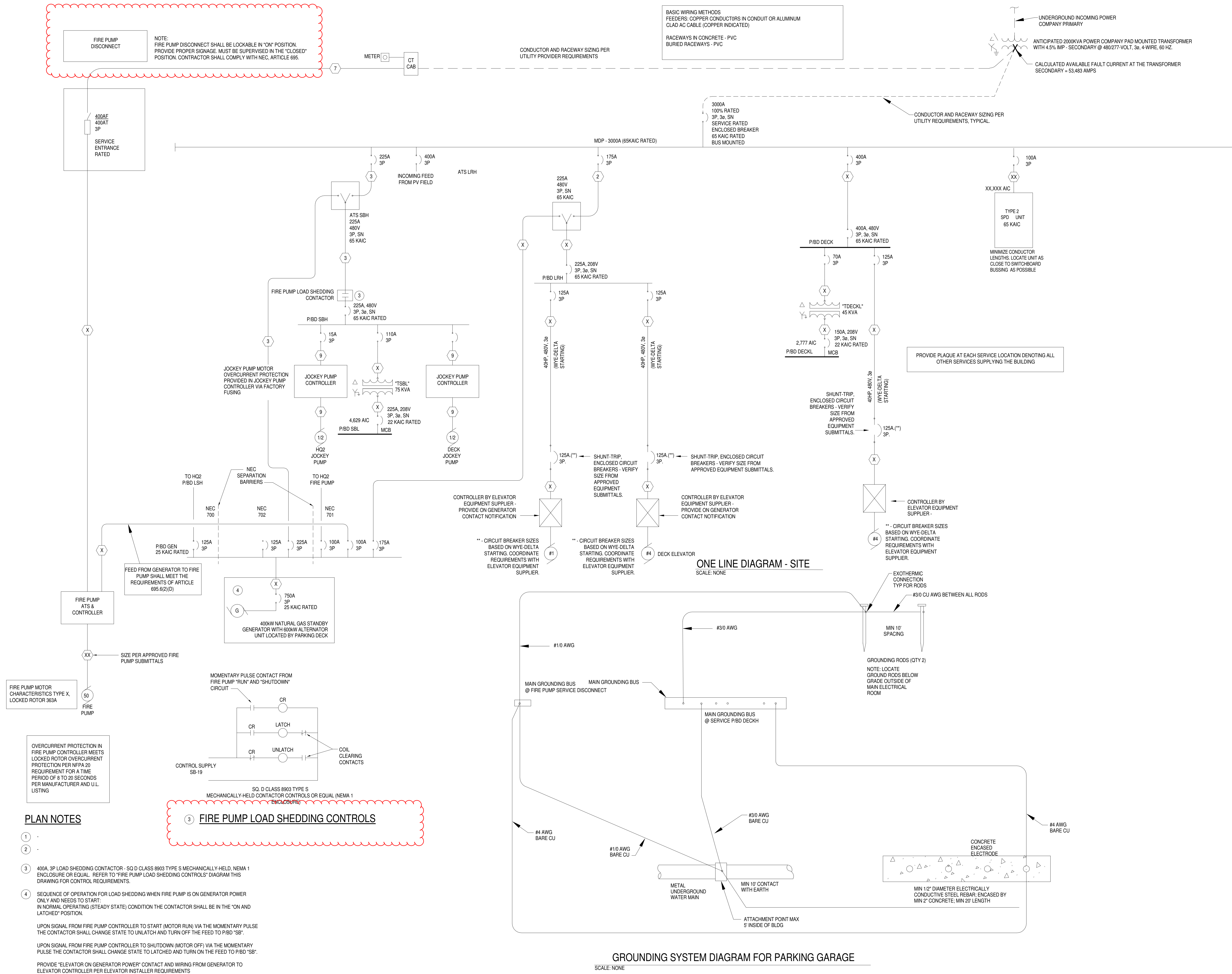
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Table with columns: DESCRIPTION, DATE, NO. (100% SCHEMATIC PHASE, 4/14/20, 2)

NOT FOR CONSTRUCTION

Sheet Name: ONE LINE DIAGRAM

Sheet Number: E002



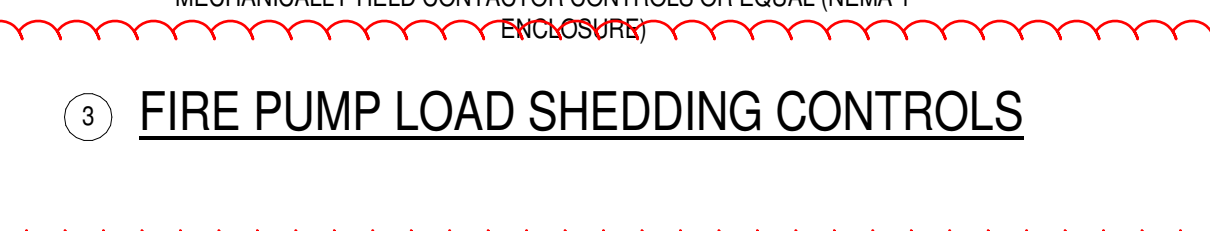
NOTE: FIRE PUMP DISCONNECT SHALL BE LOCKABLE IN 'ON' POSITION. PROVIDE PROPER SIGNAGE. MUST BE SUPERVISED IN THE 'CLOSED' POSITION. CONTRACTOR SHALL COMPLY WITH NEC, ARTICLE 695.

BASIC WIRING METHODS FEEDERS: COPPER CONDUCTORS IN CONDUIT OR ALUMINUM CLAD AC CABLE (COPPER INDICATED) RACEWAYS IN CONCRETE - PVC BURIED RACEWAYS - PVC

UNDERGROUND INCOMING POWER COMPANY PRIMARY ANTICIPATED 2000KVA POWER COMPANY PAD MOUNTED TRANSFORMER WITH 4.5% IMP - SECONDARY @ 480/277-VOLT, 3ø, 4-WIRE, 60 HZ. CALCULATED AVAILABLE FAULT CURRENT AT THE TRANSFORMER SECONDARY = 53,483 AMPS

PLAN NOTES

- 1 -
2 -
3 400A, 3P LOAD SHEDDING CONTACTOR - SQ D CLASS 8903 TYPE S MECHANICALLY-HELD, NEMA 1 ENCLOSURE OR EQUAL. REFER TO 'FIRE PUMP LOAD SHEDDING CONTROLS' DIAGRAM THIS DRAWING FOR CONTROL REQUIREMENTS.
4 SEQUENCE OF OPERATION FOR LOAD SHEDDING WHEN FIRE PUMP IS ON GENERATOR POWER ONLY AND NEEDS TO START: IN NORMAL OPERATING (STEADY STATE) CONDITION THE CONTACTOR SHALL BE IN THE 'ON AND LATCHED' POSITION. UPON SIGNAL FROM FIRE PUMP CONTROLLER TO START (MOTOR RUN) VIA THE MOMENTARY PULSE THE CONTACTOR SHALL CHANGE STATE TO UNLATCH AND TURN OFF THE FEED TO P/B'D 'SB'. UPON SIGNAL FROM FIRE PUMP CONTROLLER TO SHUTDOWN (MOTOR OFF) VIA THE MOMENTARY PULSE THE CONTACTOR SHALL CHANGE STATE TO LATCHED AND TURN ON THE FEED TO P/B'D 'SB'. PROVIDE 'ELEVATOR ON GENERATOR POWER' CONTACT AND WIRING FROM GENERATOR TO ELEVATOR CONTROLLER PER ELEVATOR INSTALLER REQUIREMENTS



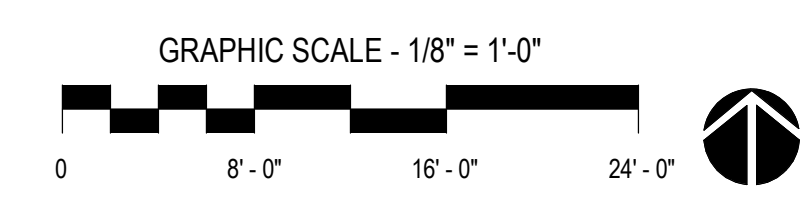
GROUNDING SYSTEM DIAGRAM FOR PARKING GARAGE SCALE: NONE





① D1 - LIGHTING  
1/8" = 1'-0"

NOTE:  
ALL LIGHT FIXTURES TO BE LED  
ALL EXTERIOR LIGHTS TO BE  
100% FULL CUTOFF, FIXTURE  
COLOR WHITE, VANDAL  
RESISTANT



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HEADQUARTERS EXPANSION  
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601 SOUTH BELVEDERE STREET

ISSUE LOG

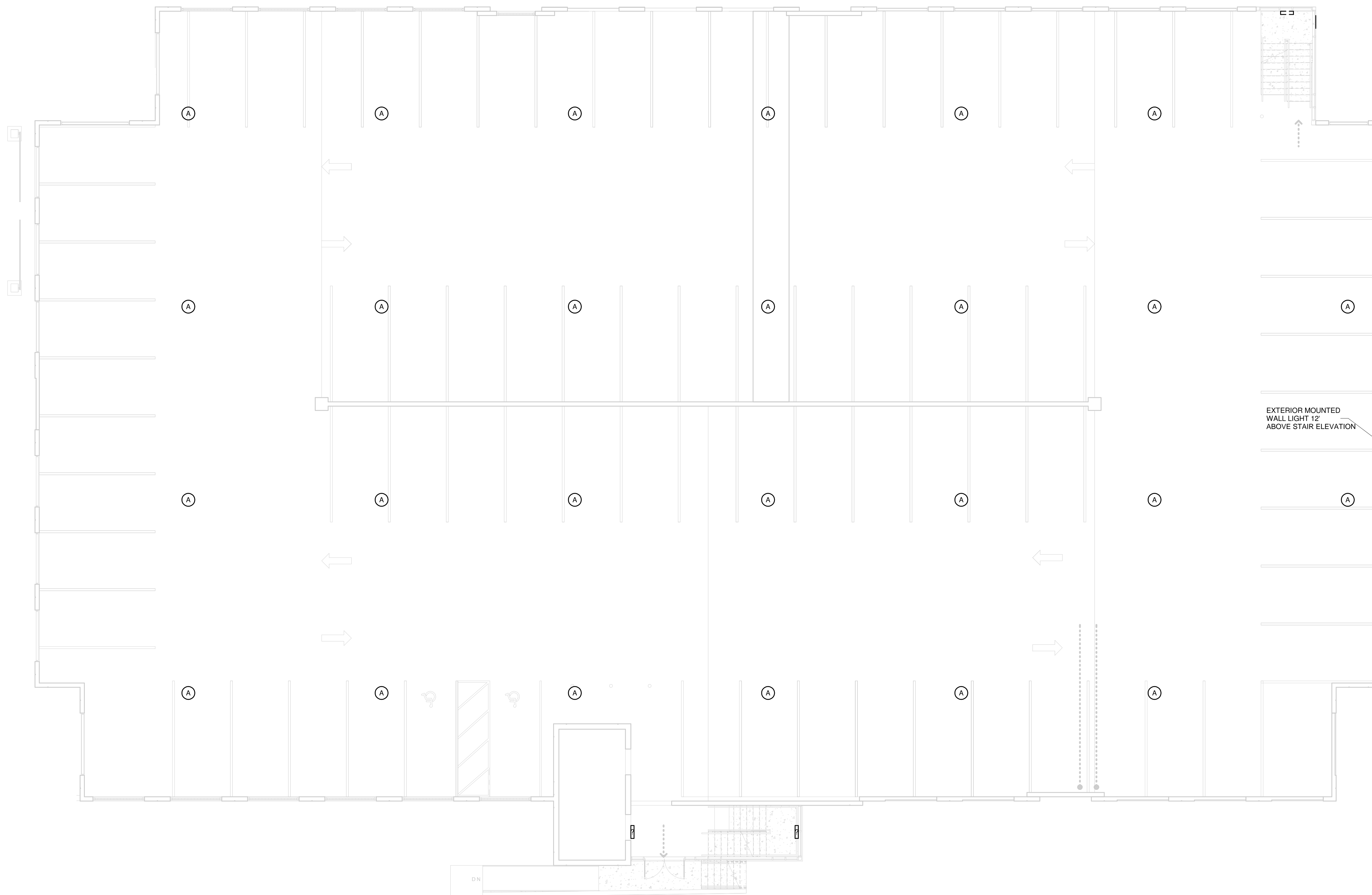
DESCRIPTION	DATE	NO.

100% SCHEMATIC PHASE	4/14/20	2
50% SCHEMATIC PHASE	3/17/20	1
DESCRIPTION	DATE	NO.

**NOT FOR CONSTRUCTION**

Sheet Name:  
ELECTRICAL - LIGHTING - D1 FLOOR PLAN

Sheet Number:  
**E211**  
Hourigan Project Number: 19053



① D2 - LIGHTING  
1/8" = 1'-0"

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601 SOUTH BELVEDERE STREET

ISSUE LOG

DESCRIPTION	DATE	NO.
100% SCHEMATIC PHASE	4/14/20	2
50% SCHEMATIC PHASE	3/17/20	1

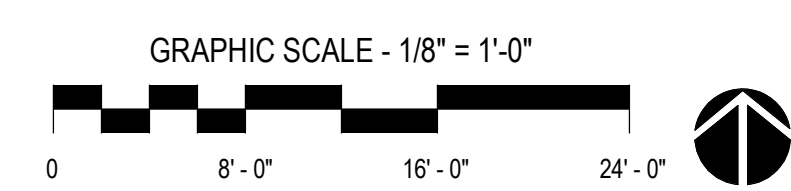
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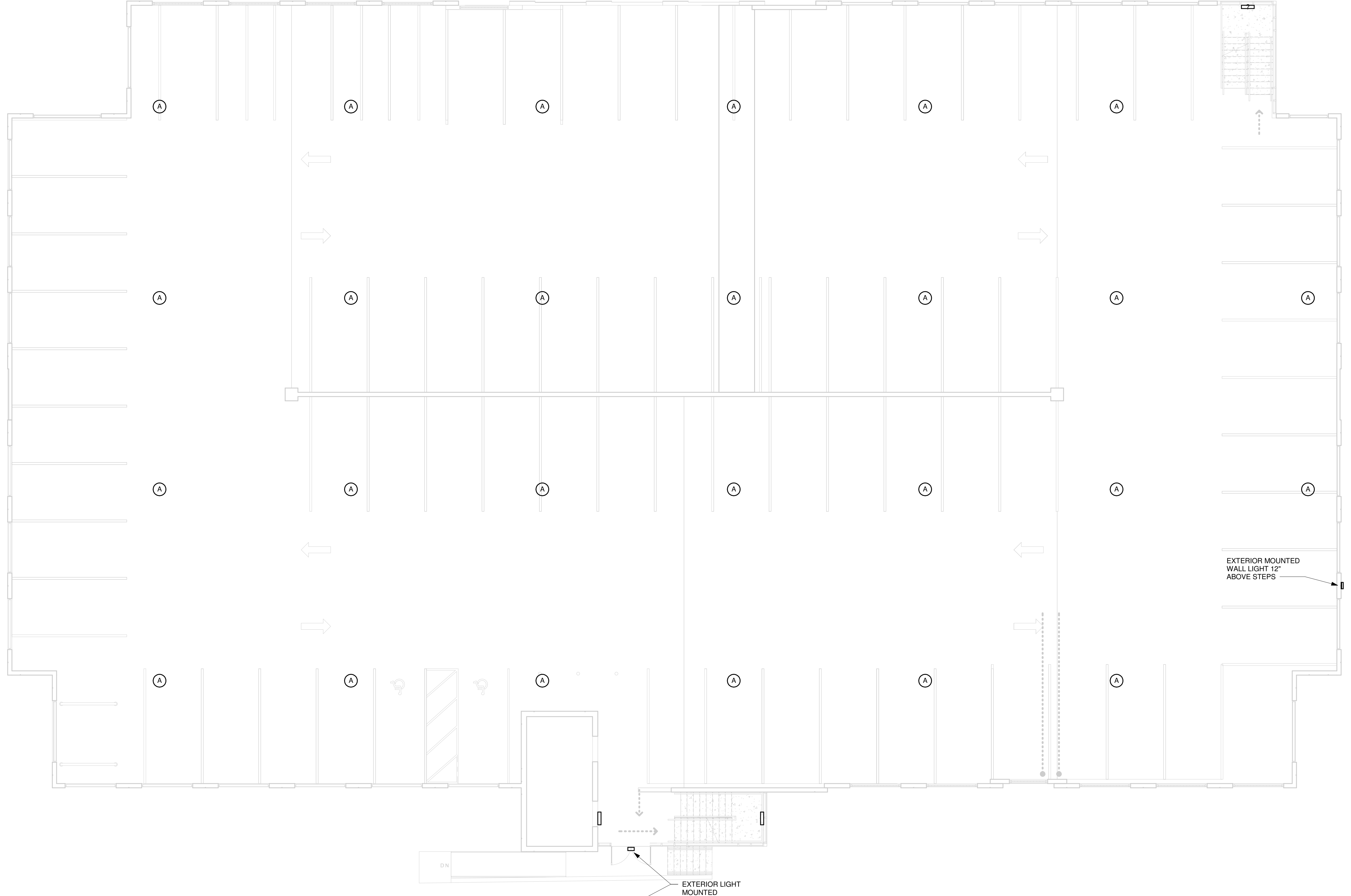
Sheet Name:  
ELECTRICAL - LIGHTING -  
D2 FLOOR PLAN

Sheet Number:

**E212**

Hourigan Project Number: 19053





D3 - LIGHTING  
1/8" = 1'-0"

EXTERIOR MOUNTED  
WALL LIGHT 12"  
ABOVE STEPS

EXTERIOR LIGHT  
MOUNTED  
BELOW BRIDGE

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ISSUE LOG

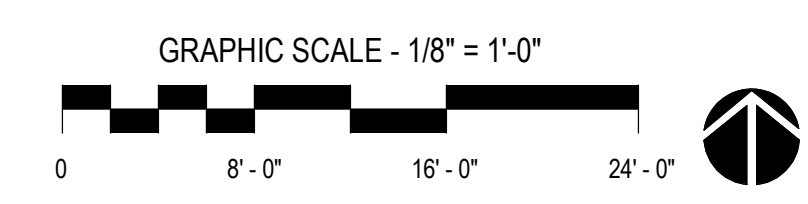
NO.	DESCRIPTION	DATE	BY

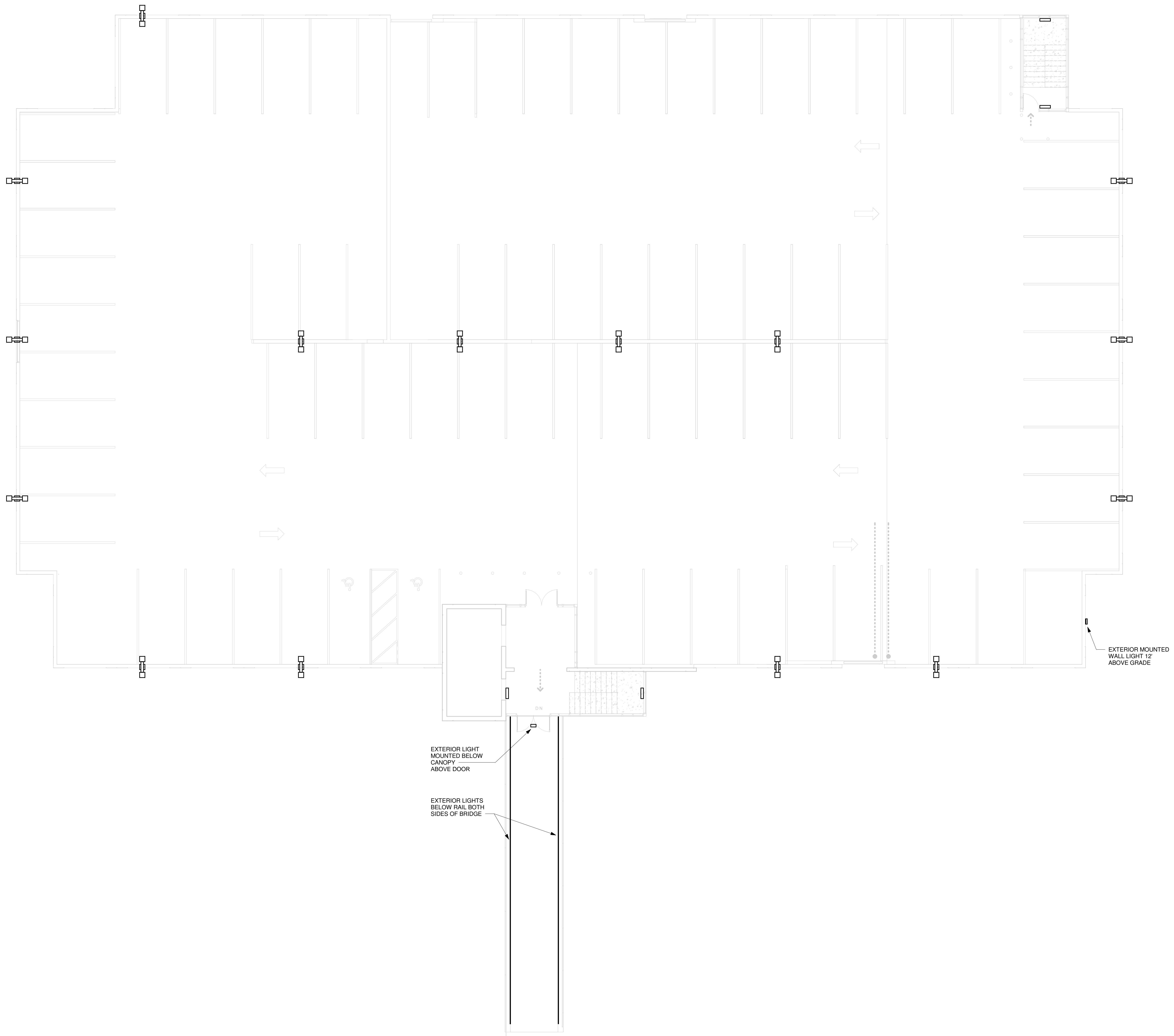
DESCRIPTION	DATE	NO.
100% SCHEMATIC PHASE	4/14/20	2
50% SCHEMATIC PHASE	3/17/20	1

**NOT FOR  
CONSTRUCTION**

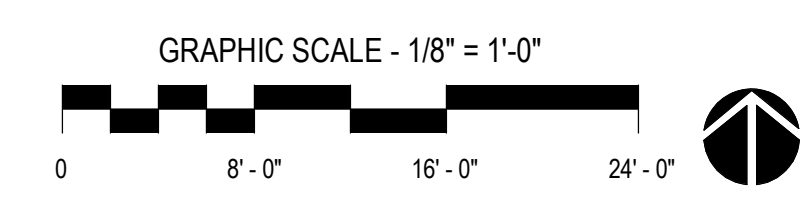
Sheet Name:  
ELECTRICAL - LIGHTING -  
D3 FLOOR PLAN

Sheet Number:  
**E213**  
Hourigan Project Number: 19053





① D4 - LIGHTING  
1/8" = 1'-0"



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ISSUE LOG

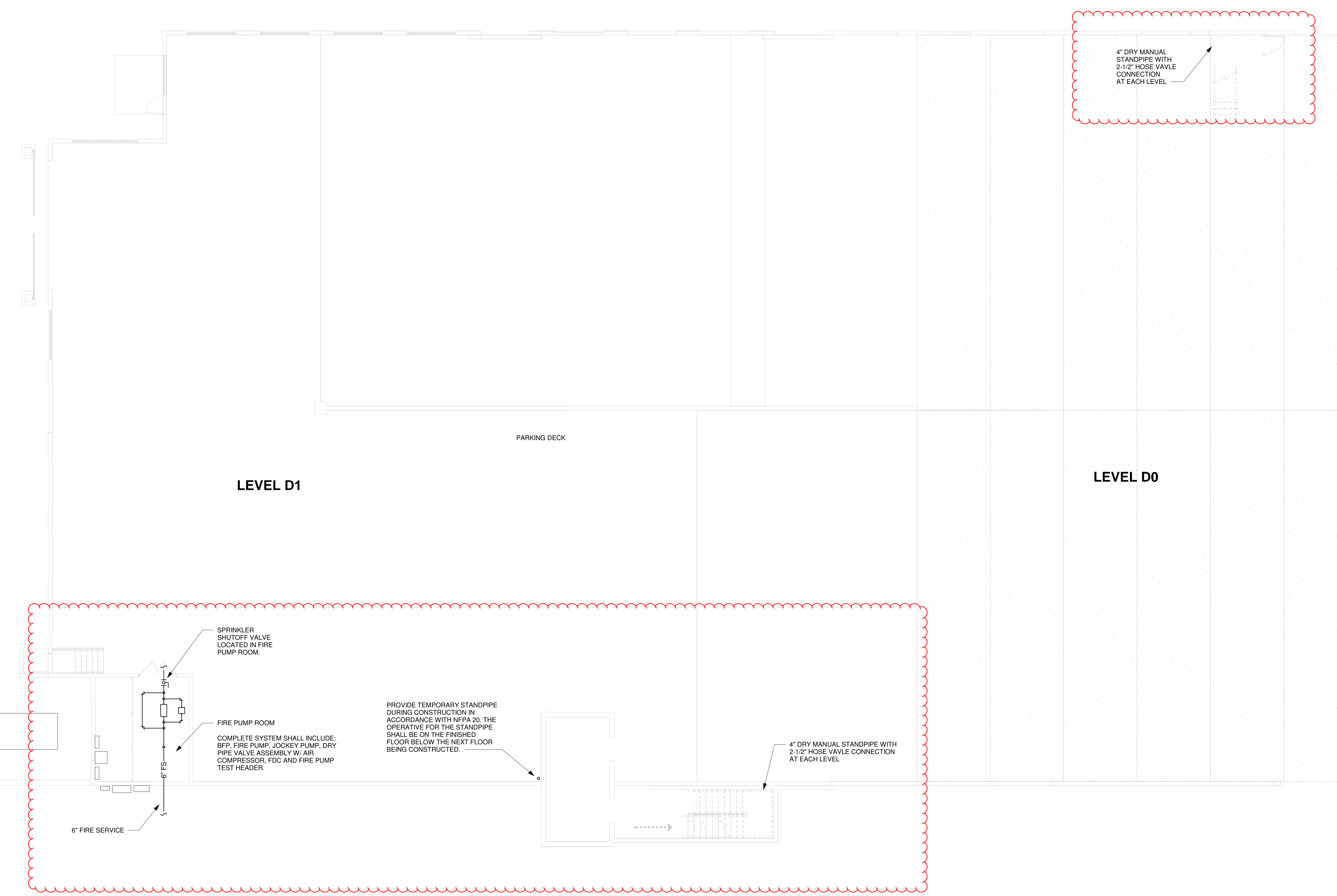
NO.	DESCRIPTION	DATE	BY

100% SCHEMATIC PHASE	4/14/20	2
50% SCHEMATIC PHASE	3/17/20	1
DESCRIPTION	DATE	NO.

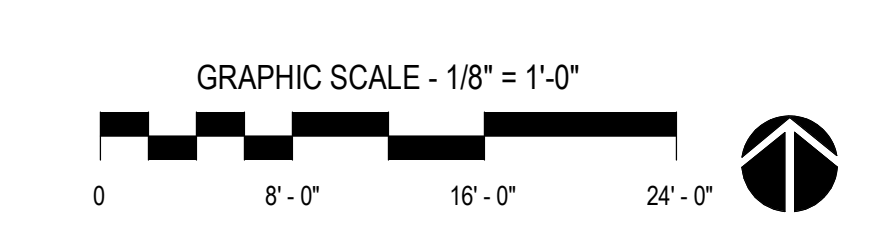
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Sheet Name:  
ELECTRICAL - LIGHTING -  
D4 FLOOR PLAN

Sheet Number:  
**E214**  
Hourigan Project Number: 19053



① D1 - FIRE PROTECTION  
1/8" = 1'-0"



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601 SOUTH BELVEDERE STREET

ISSUE LOG

SUP COMMENT REVISIONS	10/13/2020	

SUP COMMENT REVISIONS	10/13/20	3
100% SCHEMATIC PHASE	04/14/20	2
50% SCHEMATIC PHASE	03/17/20	1

DESCRIPTION      DATE      NO.

**NOT FOR  
CONSTRUCTION**

Sheet Name:  
**PLUMBING - FIRE  
PROTECTION - D1 FLOOR  
PLAN**

Sheet Number:  
**FP212**  
Hourigan Project Number:      19053